

PF-0741 USN

<110> TANG, Y. Tom; JACKSON, Jennifer L.
YUE, Henry; REDDY, Roopa
LAL, Preeti; SHAH, Purvi
AZIMZAI, Yalda; BAUGHN, Mariah R.
LU, Dyung Aina M.; BANDMAN, Olga
SHIH, Leo L.; ARVIZU, Chandra S.

<120> Proteins Associated with Cell Differentiation

<130> PF-0741 USN

<140> 10/070,226

<141> Herewith

<150> PCT/US00/25435

<151> 09/14/2000

<150> US 60/169,155

<151> 12/06/1999

<150> US 60/154,140

<151> 08/15/1999

<160> 56

<170> PERL Program

<210> 1

<211> 367

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1681724CD1

<400> 1

Met	Ala	Thr	Pro	Asn	Asn	Leu	Thr	Pro	Thr	Asn	Cys	Ser	Trp	Trp
1														15
Pro	Ile	Ser	Ala	Leu	Glu	Ser	Asp	Ala	Ala	Lys	Pro	Ala	Glu	Ala
														30
20										25				
Pro	Asp	Ala	Pro	Glu	Ala	Ala	Ser	Pro	Ala	His	Trp	Pro	Arg	Glu
														45
35										40				
Ser	Leu	Val	Leu	Tyr	His	Trp	Thr	Gln	Ser	Phe	Ser	Ser	Gln	Lys
														60
50										55				
Val	Arg	Leu	Val	Ile	Ala	Glu	Lys	Gly	Leu	Val	Cys	Glu	Glu	Arg
														75
65										70				
Asp	Val	Ser	Leu	Pro	Gln	Ser	Glu	His	Lys	Glu	Pro	Trp	Phe	Met
														90
80										85				
Arg	Leu	Asn	Leu	Gly	Glu	Glu	Val	Pro	Val	Ile	Ile	His	Arg	Asp
														105
95										100				
Asn	Ile	Ile	Ser	Asp	Tyr	Asp	Gln	Ile	Ile	Asp	Tyr	Val	Glu	Arg
														120
110										115				
Thr	Phe	Thr	Gly	Glu	His	Val	Val	Ala	Leu	Met	Pro	Glu	Val	Gly
														135
125										130				

PF-0741 USN

Ser Leu Gln His Ala Arg Val Leu Gln Tyr Arg Glu Leu Leu Asp
140 145 150
Ala Leu Pro Met Asp Ala Tyr Thr His Gly Cys Ile Leu His Pro
155 160 165
Glu Leu Thr Thr Asp Ser Met Ile Pro Lys Tyr Ala Thr Ala Glu
170 175 180
Ile Arg Arg His Leu Ala Asn Ala Thr Thr Asp Leu Met Lys Leu
185 190 195
Asp His Glu Glu Glu Pro Gln Leu Ser Glu Pro Tyr Leu Ser Lys
200 205 210
Gln Lys Lys Leu Met Ala Lys Ile Leu Glu His Asp Asp Val Ser
215 220 225
Tyr Leu Lys Lys Ile Leu Gly Glu Leu Ala Met Val Leu Asp Gln
230 235 240
Ile Glu Ala Glu Leu Glu Lys Arg Lys Leu Glu Asn Glu Gly Gln
245 250 255
Lys Cys Glu Leu Trp Leu Cys Gly Cys Ala Phe Thr Leu Ala Asp
260 265 270
Val Leu Leu Gly Ala Thr Leu His Arg Leu Lys Phe Leu Gly Leu
275 280 285
Ser Lys Lys Tyr Trp Glu Asp Gly Ser Arg Pro Asn Leu Gln Ser
290 295 300
Phe Phe Glu Arg Val Gln Arg Arg Phe Ala Phe Arg Lys Val Leu
305 310 315
Gly Asp Ile His Thr Thr Leu Leu Ser Ala Val Ile Pro Asn Ala
320 325 330
Phe Arg Leu Val Lys Arg Lys Pro Pro Ser Phe Phe Gly Ala Ser
335 340 345
Phe Leu Met Gly Ser Leu Gly Gly Met Gly Tyr Phe Ala Tyr Trp
350 355 360
Tyr Leu Lys Lys Lys Tyr Ile
365

<210> 2
<211> 102
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1718047CD1

<400> 2
Met Ala Leu Leu Lys Ala Asn Lys Asp Leu Ile Ser Ala Gly Leu
1 5 10 15
Lys Glu Phe Ser Val Leu Leu Asn Gln Gln Val Phe Asn Asp Pro
20 25 30
Leu Val Ser Glu Glu Asp Met Val Thr Val Val Glu Asp Trp Met
35 40 45
Asn Phe Tyr Ile Asn Tyr Tyr Arg Gln Gln Val Thr Gly Glu Pro
50 55 60
Gln Glu Arg Asp Lys Ala Leu Gln Glu Leu Arg Gln Glu Leu Asn
65 70 75
Thr Leu Ala Asn Pro Phe Leu Ala Lys Tyr Arg Asp Phe Leu Lys

PF-0741 USN

80	85	90
Ser His Glu Leu Pro Ser His Pro Pro Pro Ser Ser		
95	100	

<210> 3
<211> 205
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1980323CD1

<400> 3

Met Ala Glu Pro Leu Gln Pro Asp Pro Gly Ala Ala Glu Asp Ala			
1	5	10	15
Ala Ala Gln Ala Val Glu Thr Pro Gly Trp Lys Ala Pro Glu Asp			
20	25	30	
Ala Gly Pro Gln Pro Gly Ser Tyr Glu Ile Arg His Tyr Gly Pro			
35	40	45	
Ala Lys Trp Val Ser Thr Ser Val Glu Ser Met Asp Trp Asp Ser			
50	55	60	
Ala Ile Gln Thr Gly Phe Thr Lys Leu Asn Ser Tyr Ile Gln Gly			
65	70	75	
Lys Asn Glu Lys Glu Met Lys Ile Lys Met Thr Ala Pro Val Thr			
80	85	90	
Ser Tyr Val Glu Pro Gly Ser Gly Pro Phe Ser Glu Ser Thr Ile			
95	100	105	
Thr Ile Ser Leu Tyr Ile Pro Ser Glu Gln Gln Phe Asp Pro Pro			
110	115	120	
Arg Pro Leu Glu Ser Asp Val Phe Ile Glu Asp Arg Ala Glu Met			
125	130	135	
Thr Val Phe Val Arg Ser Phe Asp Gly Phe Ser Ser Ala Gln Lys			
140	145	150	
Asn Gln Glu Gln Leu Leu Thr Leu Ala Ser Ile Leu Arg Glu Asp			
155	160	165	
Gly Lys Val Phe Asp Glu Lys Val Tyr Tyr Thr Ala Gly Tyr Asn			
170	175	180	
Ser Pro Val Lys Leu Leu Asn Arg Asn Asn Glu Val Trp Leu Ile			
185	190	195	
Gln Lys Asn Glu Pro Thr Lys Glu Asn Glu			
200	205		

<210> 4
<211> 120
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1990956CD1

<400> 4

Met Glu Ser Lys Glu Glu Leu Ala Ala Asn Asn Leu Asn Gly Glu		
---	--	--

PF-0741 USN

1	5	10	15
Asn Ala Gln Gln Glu Asn Glu Gly Gly Glu Gln Ala Pro Thr Gln			
	20	25	30
Asn Glu Glu Glu Ser Arg His Leu Gly Gly Glu Gly Gln Lys			
	35	40	45
Pro Gly Gly Asn Ile Arg Arg Gly Arg Val Arg Arg Leu Val Pro			
	50	55	60
Asn Phe Arg Trp Ala Ile Pro Asn Arg His Ile Glu His Asn Glu			
	65	70	75
Ala Arg Asp Asp Val Glu Arg Phe Val Gly Gln Met Met Glu Ile			
	80	85	90
Lys Arg Lys Thr Arg Glu Gln Gln Met Arg His Tyr Met Arg Phe			
	95	100	105
Gln Thr Pro Glu Pro Asp Asn His Tyr Asp Phe Cys Leu Ile Pro			
	110	115	120

<210> 5

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2009069CD1

<400> 5

<210> 6

<211> 308

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2009435CD1

<400> 6

PF-0741 USN

Met Ala Lys Met Glu Leu Ser Lys Ala Phe Ser Gly Gln Arg Thr
1 5 10 15
Leu Leu Ser Ala Ile Leu Ser Met Leu Ser Leu Ser Phe Ser Thr
20 25 30
Thr Ser Leu Leu Ser Asn Tyr Trp Phe Val Gly Thr Gln Lys Val
35 40 45
Pro Lys Pro Leu Cys Glu Lys Gly Leu Ala Ala Lys Cys Phe Asp
50 55 60
Met Pro Val Ser Leu Asp Gly Asp Thr Asn Thr Ser Thr Gln Glu
65 70 75
Val Val Gln Tyr Asn Trp Glu Thr Gly Asp Asp Arg Phe Ser Phe
80 85 90
Arg Ser Phe Arg Ser Gly Met Trp Leu Ser Cys Glu Glu Thr Val
95 100 105
Glu Glu Pro Ala Leu Leu His Pro Gln Ser Trp Lys Gln Phe Arg
110 115 120
Ala Leu Arg Ser Ser Gly Thr Ala Ala Ala Lys Gly Glu Arg Cys
125 130 135
Arg Ser Phe Ile Glu Leu Thr Pro Pro Ala Lys Arg Gly Glu Lys
140 145 150
Gly Leu Leu Glu Phe Ala Thr Leu Gln Gly Pro Cys His Pro Thr
155 160 165
Leu Arg Phe Gly Gly Lys Arg Leu Met Glu Lys Ala Ser Leu Pro
170 175 180
Ser Pro Pro Leu Gly Leu Cys Gly Lys Asn Pro Met Val Ile Pro
185 190 195
Gly Asn Ala Asp His Leu His Arg Thr Ser Ile His Gln Leu Pro
200 205 210
Pro Ala Thr Asn Arg Leu Ala Thr His Trp Glu Pro Cys Leu Trp
215 220 225
Ala Gln Thr Glu Arg Leu Cys Cys Cys Phe Leu Cys Pro Val Arg
230 235 240
Ser Pro Gly Asp Gly Gly Pro His Asp Val Phe Thr Ser Leu Pro
245 250 255
Ser Asp Cys Gln Leu Gly Ser Arg Arg Leu Glu Thr Thr Cys Leu
260 265 270
Glu Leu Trp Leu Gly Leu Leu His Gly Leu Ala Leu Leu His Leu
275 280 285
Leu His Gly Val Gly Cys His His Leu Gln His Val His Gln Asp
290 295 300
Gly Ala Gly Val Gln Val Gln Ala
305

<210> 7

<211> 116

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2027937CD1

<400> 7

Met Ser Phe Ser Glu Gln Gln Cys Lys Gln Pro Cys Val Pro Pro

PF-0741 USN

1	5	10	15
Pro Cys Leu Pro Lys Thr Gln Glu Gln Cys	Gln Ala Lys Ala Glu		
20	25		30
Glu Val Cys Leu Pro Thr Cys Gln His Pro Cys	Gln Asp Lys Cys		
35	40		45
Leu Val Gln Ala Gln Glu Val Cys Leu Ser Gln	Cys Gln Glu Ser		
50	55		60
Ser Gln Glu Lys Cys Pro Gln Gln Gly Gln Glu	Pro Tyr Leu Pro		
65	70		75
Pro Cys Gln Asp Gln Cys Pro Pro Gln Cys Ala	Glu Pro Cys Gln		
80	85		90
Glu Leu Phe Gln Thr Lys Cys Val Glu Val Cys	Pro Gln Lys Val		
95	100		105
Gln Glu Lys Cys Ser Ser Pro Gly Lys Gly Lys			
110	115		

<210> 8

<211> 1253

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2722347CD1

<400> 8

Met Thr Thr His Val Thr Leu Glu Asp Ala Leu Ser Asn Val Asp			
1	5	10	15
Leu Leu Glu Glu Leu Pro Leu Pro Asp Gln Gln Pro Cys Ile Glu			
20	25		30
Pro Pro Pro Ser Ser Ile Met Tyr Gln Ala Asn Phe Asp Thr Asn			
35	40		45
Phe Glu Asp Arg Asn Ala Phe Val Thr Gly Ile Ala Arg Tyr Ile			
50	55		60
Glu Gln Ala Thr Val His Ser Ser Met Asn Glu Met Leu Glu Glu			
65	70		75
Gly His Glu Tyr Ala Val Met Leu Tyr Thr Trp Arg Ser Cys Ser			
80	85		90
Arg Ala Ile Pro Gln Val Lys Cys Asn Glu Gln Pro Asn Arg Val			
95	100		105
Glu Ile Tyr Glu Lys Thr Val Glu Val Leu Glu Pro Glu Val Thr			
110	115		120
Lys Leu Met Lys Phe Met Tyr Phe Gln Arg Lys Ala Ile Glu Arg			
125	130		135
Phe Cys Ser Glu Val Lys Arg Leu Cys His Ala Glu Arg Arg Lys			
140	145		150
Asp Phe Val Ser Glu Ala Tyr Leu Leu Thr Leu Gly Lys Phe Ile			
155	160		165
Asn Met Phe Ala Val Leu Asp Glu Leu Lys Asn Met Lys Cys Ser			
170	175		180
Val Lys Asn Asp His Ser Ala Tyr Lys Arg Ala Ala Gln Phe Leu			
185	190		195
Arg Lys Met Ala Asp Pro Gln Ser Ile Gln Glu Ser Gln Asn Leu			
200	205		210

PF-0741 USN

Ser	Met	Phe	Leu	Ala	Asn	His	Asn	Arg	Ile	Thr	Gln	Cys	Leu	His
									215	220				225
Gln	Gln	Leu	Glu	Val	Ile	Pro	Gly	Tyr	Glu	Glu	Leu	Leu	Ala	Asp
									230	235				240
Ile	Val	Asn	Ile	Cys	Val	Asp	Tyr	Tyr	Glu	Asn	Lys	Met	Tyr	Leu
									245	250				255
Thr	Pro	Ser	Glu	Lys	His	Met	Leu	Leu	Lys	Val	Met	Gly	Phe	Gly
									260	265				270
Leu	Tyr	Leu	Met	Asp	Gly	Asn	Val	Ser	Asn	Ile	Tyr	Lys	Leu	Asp
									275	280				285
Ala	Lys	Lys	Arg	Ile	Asn	Leu	Ser	Lys	Ile	Asp	Lys	Phe	Phe	Lys
									290	295				300
Gln	Leu	Gln	Val	Val	Pro	Leu	Phe	Gly	Asp	Met	Gln	Ile	Glu	Leu
									305	310				315
Ala	Arg	Tyr	Ile	Lys	Thr	Ser	Ala	His	Tyr	Glu	Glu	Asn	Lys	Ser
									320	325				330
Lys	Trp	Thr	Cys	Thr	Gln	Ser	Ser	Ile	Ser	Pro	Gln	Tyr	Asn	Ile
									335	340				345
Cys	Glu	Gln	Met	Val	Gln	Ile	Arg	Asp	Asp	His	Ile	Arg	Phe	Ile
									350	355				360
Ser	Glu	Leu	Ala	Arg	Tyr	Ser	Asn	Ser	Glu	Val	Val	Thr	Gly	Ser
									365	370				375
Gly	Leu	Asp	Ser	Gln	Lys	Ser	Asp	Glu	Glu	Tyr	Arg	Glu	Leu	Phe
									380	385				390
Asp	Leu	Ala	Leu	Arg	Gly	Leu	Gln	Leu	Leu	Ser	Lys	Trp	Ser	Ala
									395	400				405
His	Val	Met	Glu	Val	Tyr	Ser	Trp	Lys	Leu	Val	His	Pro	Thr	Asp
									410	415				420
Lys	Phe	Cys	Asn	Lys	Asp	Cys	Pro	Gly	Thr	Ala	Glu	Glu	Tyr	Glu
									425	430				435
Arg	Ala	Thr	Arg	Tyr	Asn	Tyr	Thr	Ser	Glu	Glu	Lys	Phe	Ala	Phe
									440	445				450
Val	Glu	Val	Ile	Ala	Met	Ile	Lys	Gly	Leu	Gln	Val	Leu	Met	Gly
									455	460				465
Arg	Met	Glu	Ser	Val	Phe	Asn	Gln	Ala	Ile	Arg	Asn	Thr	Ile	Tyr
									470	475				480
Ala	Ala	Leu	Gln	Asp	Phe	Ala	Gln	Val	Thr	Leu	Arg	Glu	Pro	Leu
									485	490				495
Arg	Gln	Ala	Val	Arg	Lys	Lys	Lys	Asn	Val	Leu	Ile	Ser	Val	Leu
									500	505				510
Gln	Ala	Ile	Arg	Lys	Thr	Ile	Cys	Asp	Trp	Glu	Gly	Gly	Arg	Glu
									515	520				525
Pro	Pro	Asn	Asp	Pro	Cys	Leu	Arg	Gly	Glu	Lys	Asp	Pro	Lys	Gly
									530	535				540
Gly	Phe	Asp	Ile	Lys	Val	Pro	Arg	Arg	Ala	Val	Gly	Pro	Ser	Ser
									545	550				555
Thr	Gln	Leu	Tyr	Met	Val	Arg	Thr	Met	Leu	Glu	Ser	Leu	Ile	Ala
									560	565				570
Asp	Lys	Ser	Gly	Ser	Lys	Lys	Thr	Leu	Arg	Ser	Ser	Leu	Asp	Gly
									575	580				585
Pro	Ile	Val	Leu	Ala	Ile	Glu	Asp	Phe	His	Lys	Gln	Ser	Phe	Phe
									590	595				600
Phe	Thr	His	Leu	Leu	Asn	Ile	Ser	Glu	Ala	Leu	Gln	Gln	Cys	Cys
									605	610				615

Asp	Leu	Ser	Gln	Leu	Trp	Phe	Arg	Glu	Phe	Phe	Leu	Glu	Leu	Thr
					620				625					630
Met	Gly	Arg	Arg	Ile	Gln	Phe	Pro	Ile	Glu	Met	Ser	Met	Pro	Trp
					635				640					645
Ile	Leu	Thr	Asp	His	Ile	Leu	Glu	Thr	Lys	Glu	Pro	Ser	Met	Met
					650				655					660
Glu	Tyr	Val	Leu	Tyr	Pro	Leu	Asp	Leu	Tyr	Asn	Asp	Ser	Ala	Tyr
					665				670					675
Tyr	Ala	Leu	Thr	Lys	Phe	Lys	Lys	Gln	Phe	Leu	Tyr	Asp	Glu	Ile
					680				685					690
Glu	Ala	Glu	Val	Asn	Leu	Cys	Phe	Asp	Gln	Phe	Val	Tyr	Lys	Leu
					695				700					705
Ala	Asp	Gln	Ile	Phe	Ala	Tyr	Tyr	Lys	Ala	Met	Ala	Gly	Ser	Val
					710				715					720
Leu	Leu	Asp	Lys	Arg	Phe	Arg	Ala	Glu	Cys	Lys	Asn	Tyr	Gly	Val
					725				730					735
Ile	Ile	Pro	Tyr	Pro	Pro	Ser	Asn	Arg	Tyr	Glu	Thr	Leu	Leu	Lys
					740				745					750
Gln	Arg	His	Val	Gln	Leu	Leu	Gly	Arg	Ser	Ile	Asp	Leu	Asn	Arg
					755				760					765
Leu	Ile	Thr	Gln	Arg	Ile	Ser	Ala	Ala	Met	Tyr	Lys	Ser	Leu	Asp
					770				775					780
Gln	Ala	Ile	Ser	Arg	Phe	Glu	Ser	Glu	Asp	Leu	Thr	Ser	Ile	Val
					785				790					795
Glu	Leu	Glu	Trp	Leu	Leu	Glu	Ile	Asn	Arg	Leu	Thr	His	Arg	Leu
					800				805					810
Leu	Cys	Lys	His	Met	Thr	Leu	Asp	Ser	Phe	Asp	Ala	Met	Phe	Arg
					815				820					825
Glu	Ala	Asn	His	Asn	Val	Ser	Ala	Pro	Tyr	Gly	Arg	Ile	Thr	Leu
					830				835					840
His	Val	Phe	Trp	Glu	Leu	Asn	Phe	Asp	Phe	Leu	Pro	Asn	Tyr	Cys
					845				850					855
Tyr	Asn	Gly	Ser	Thr	Asn	Arg	Phe	Val	Arg	Thr	Ala	Ile	Pro	Phe
					860				865					870
Thr	Gln	Glu	Pro	Gln	Arg	Asp	Lys	Pro	Ala	Asn	Val	Gln	Pro	Tyr
					875				880					885
Tyr	Leu	Tyr	Gly	Ser	Lys	Pro	Leu	Asn	Ile	Ala	Tyr	Ser	His	Ile
					890				895					900
Tyr	Ser	Ser	Tyr	Arg	Asn	Phe	Val	Gly	Pro	Pro	His	Phe	Lys	Thr
					905				910					915
Ile	Cys	Arg	Leu	Leu	Gly	Tyr	Gln	Gly	Ile	Ala	Val	Val	Met	Glu
					920				925					930
Glu	Leu	Leu	Lys	Ile	Val	Lys	Ser	Leu	Leu	Gln	Gly	Thr	Ile	Leu
					935				940					945
Gln	Tyr	Val	Lys	Thr	Leu	Ile	Glu	Val	Met	Pro	Lys	Ile	Cys	Arg
					950				955					960
Leu	Pro	Arg	His	Glu	Tyr	Gly	Ser	Pro	Gly	Ile	Leu	Glu	Phe	Phe
					965				970					975
His	His	Gln	Leu	Lys	Asp	Ile	Ile	Glu	Tyr	Ala	Glu	Leu	Lys	Thr
					980				985					990
Asp	Val	Phe	Gln	Ser	Leu	Arg	Glu	Val	Gly	Asn	Ala	Ile	Leu	Phe
					995				1000					1005
Cys	Leu	Leu	Ile	Glu	Gln	Ala	Leu	Ser	Gln	Glu	Glu	Val	Cys	Asp
					1010				1015					1020

PF-0741 USN

Leu Leu His Ala Ala Pro Phe Gln Asn Ile Leu Pro Arg Val Tyr
1025 1030 1035
Ile Lys Glu Gly Glu Arg Leu Glu Val Arg Met Lys Arg Leu Glu
1040 1045 1050
Ala Lys Tyr Ala Pro Leu His Leu Val Pro Leu Ile Glu Arg Leu
1055 1060 1065
Gly Thr Pro Gln Gln Ile Ala Ile Ala Arg Glu Gly Asp Leu Leu
1070 1075 1080
Thr Lys Glu Arg Leu Cys Cys Gly Leu Ser Met Phe Glu Val Ile
1085 1090 1095
Leu Thr Arg Ile Arg Ser Tyr Leu Gln Asp Pro Ile Trp Arg Gly
1100 1105 1110
Pro Pro Pro Thr Asn Gly Val Met His Val Asp Glu Cys Val Glu
1115 1120 1125
Phe His Arg Leu Trp Ser Ala Met Gln Phe Val Tyr Cys Ile Pro
1130 1135 1140
Val Gly Thr Asn Glu Phe Thr Ala Glu Gln Cys Phe Gly Asp Gly
1145 1150 1155
Leu Asn Trp Ala Gly Cys Ser Ile Ile Val Leu Leu Gly Gln Gln
1160 1165 1170
Arg Arg Phe Asp Leu Phe Asp Phe Cys Tyr His Leu Leu Lys Val
1175 1180 1185
Gln Arg Gln Asp Gly Lys Asp Glu Ile Ile Lys Asn Val Pro Leu
1190 1195 1200
Lys Lys Met Ala Asp Arg Ile Arg Lys Tyr Gln Ile Leu Asn Asn
1205 1210 1215
Glu Val Phe Ala Ile Leu Asn Lys Tyr Met Lys Ser Val Glu Thr
1220 1225 1230
Asp Ser Ser Thr Val Glu His Val Arg Cys Phe Gln Pro Pro Ile
1235 1240 1245
His Gln Ser Leu Ala Thr Thr Cys
1250

<210> 9

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2759876CD1

<400> 9

Met Ser Val Asp Met Asn Ser Gln Gly Ser Asp Ser Asn Glu Glu
1 5 10 15
Asp Tyr Asp Pro Asn Cys Glu Glu Glu Glu Glu Glu Asp
20 25 30
Asp Pro Gly Asp Ile Glu Asp Tyr Tyr Val Gly Val Ala Ser Asp
35 40 45
Val Glu Gln Gln Gly Ala Asp Ala Phe Asp Pro Glu Glu Tyr Gln
50 55 60
Phe Thr Cys Leu Thr Tyr Lys Glu Ser Glu Gly Ala Leu Asn Glu
65 70 75
His Met Thr Ser Leu Ala Ser Val Leu Lys Val Ser Ser Val Val

PF-0741 USN

	80	85	90
Asn Ser Ser Val Ile Pro Pro Ser			
	95		

<210> 10
<211> 524
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2763735CD1

<400> 10
Met Glu Glu Glu Gln Asp Leu Pro Glu Gln Pro Val Lys Lys Ala
1 5 10 15
Lys Met Gln Glu Ser Gly Glu Gln Thr Ile Ser Gln Val Ser Asn
20 25 30
Pro Asp Val Ser Asp Gln Lys Pro Glu Thr Ser Ser Leu Ala Ser
35 40 45
Asn Leu Pro Met Ser Glu Glu Ile Met Thr Cys Thr Asp Tyr Ile
50 55 60
Pro Arg Ser Ser Asn Asp Tyr Thr Ser Gln Met Tyr Ser Ala Lys
65 70 75
Pro Tyr Ala His Ile Leu Ser Val Pro Val Ser Glu Thr Ala Tyr
80 85 90
Pro Gly Gln Thr Gln Tyr Gln Thr Leu Gln Gln Thr Gln Pro Tyr
95 100 105
Ala Val Tyr Pro Gln Ala Thr Gln Thr Tyr Gly Leu Pro Pro Phe
110 115 120
Ala Ser Ser Thr Asn Ala Ser Leu Ile Ser Thr Ser Ser Thr Ile
125 130 135
Ala Asn Ile Pro Ala Ala Val Ala Ser Ile Ser Asn Gln Asp
140 145 150
Tyr Pro Thr Tyr Thr Ile Leu Gly Gln Asn Gln Tyr Gln Ala Cys
155 160 165
Tyr Pro Ser Ser Ser Phe Gly Val Thr Gly Gln Thr Asn Ser Asp
170 175 180
Ala Glu Ser Thr Thr Leu Ala Ala Thr Thr Tyr Gln Ser Glu Lys
185 190 195
Pro Ser Val Met Ala Pro Ala Pro Ala Ala Gln Arg Leu Ser Ser
200 205 210
Gly Asp Pro Ser Thr Ser Pro Ser Leu Ser Gln Thr Thr Pro Ser
215 220 225
Lys Asp Thr Asp Asp Gln Ser Arg Lys Asn Met Thr Ser Lys Asn
230 235 240
Arg Gly Lys Arg Lys Ala Asp Ala Thr Ser Ser Gln Asp Ser Glu
245 250 255
Leu Glu Arg Val Phe Leu Trp Asp Leu Asp Glu Thr Ile Ile Ile
260 265 270
Phe His Ser Leu Leu Thr Gly Ser Tyr Ala Gln Lys Tyr Gly Lys
275 280 285
Asp Pro Thr Val Val Ile Gly Ser Gly Leu Thr Met Glu Glu Met
290 295 300

PF-0741 USN

Ile	Phe	Glu	Val	Ala	Asp	Thr	His	Leu	Phe	Phe	Asn	Asp	Leu	Glu
305									310					315
Glu	Cys	Asp	Gln	Val	His	Val	Glu	Asp	Val	Ala	Ser	Asp	Asp	Asn
320									325					330
Gly	Gln	Asp	Leu	Ser	Asn	Tyr	Ser	Phe	Ser	Thr	Asp	Gly	Phe	Ser
335									340					345
Gly	Ser	Gly	Gly	Ser	Gly	Ser	His	Gly	Ser	Ser	Val	Gly	Val	Gln
350									355					360
Gly	Gly	Val	Asp	Trp	Met	Arg	Lys	Leu	Ala	Phe	Arg	Tyr	Arg	Lys
365									370					375
Val	Arg	Glu	Ile	Tyr	Asp	Lys	His	Lys	Ser	Asn	Val	Gly	Gly	Leu
380									385					390
Leu	Ser	Pro	Gln	Arg	Lys	Glu	Ala	Leu	Gln	Arg	Leu	Arg	Ala	Glu
395									400					405
Ile	Glu	Val	Leu	Thr	Asp	Ser	Trp	Leu	Gly	Thr	Ala	Leu	Lys	Ser
410									415					420
Leu	Leu	Leu	Ile	Gln	Ser	Arg	Lys	Asn	Cys	Val	Asn	Val	Leu	Ile
425									430					435
Thr	Thr	Thr	Gln	Leu	Val	Pro	Ala	Leu	Ala	Lys	Val	Leu	Leu	Tyr
440									445					450
Gly	Leu	Gly	Glu	Ile	Phe	Pro	Ile	Glu	Asn	Ile	Tyr	Ser	Ala	Thr
455									460					465
Lys	Ile	Gly	Lys	Glu	Ser	Cys	Phe	Glu	Arg	Ile	Val	Ser	Arg	Phe
470									475					480
Gly	Lys	Lys	Val	Thr	Tyr	Val	Val	Ile	Gly	Asp	Gly	Arg	Asp	Ala
485									490					495
Ala	Lys	Gln	His	Asn	Met	Pro	Phe	Trp	Arg	Ile	Thr	Asn	His	Gly
500									505					510
Asp	Leu	Val	Ser	Leu	His	Gln	Ala	Leu	Glu	Leu	Asp	Phe	Leu	
515									520					

<210> 11
<211> 628
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2848676CD1

<400> 11

Met	Ala	Ala	Ala	Gly	Ala	Gly	Pro	Gly	Gln	Glu	Ala	Gly	Ala	Gly
1				5					10					15
Pro	Gly	Pro	Gly	Ala	Val	Ala	Asn	Ala	Thr	Gly	Ala	Glu	Glu	Gly
					20				25					30
Glu	Met	Lys	Pro	Val	Ala	Ala	Gly	Ala	Ala	Ala	Pro	Pro	Gly	Glu
					35				40					45
Gly	Ile	Ser	Ala	Ala	Pro	Thr	Val	Glu	Pro	Ser	Ser	Gly	Glu	Ala
					50				55					60
Glu	Gly	Gly	Glu	Ala	Asn	Leu	Val	Asp	Val	Ser	Gly	Gly	Leu	Glu
					65				70					75
Thr	Glu	Ser	Ser	Asn	Gly	Lys	Asp	Thr	Leu	Glu	Gly	Ala	Gly	Asp
					80				85					90
Thr	Ser	Glu	Val	Met	Asp	Thr	Gln	Ala	Gly	Ser	Val	Asp	Glu	Glu

95	100	105
Asn Gly Arg Gln Leu Gly Glu Val Glu	Leu Gln Cys Gly Ile Cys	
110	115	120
Thr Lys Trp Phe Thr Ala Asp Thr Phe	Gly Ile Asp Thr Ser Ser	
125	130	135
Cys Leu Pro Phe Met Thr Asn Tyr Ser	Phe His Cys Asn Val Cys	
140	145	150
His His Ser Gly Asn Thr Tyr Phe Leu	Arg Lys Gln Ala Asn Leu	
155	160	165
Lys Glu Met Cys Leu Ser Ala Leu Ala	Asn Leu Thr Trp Gln Ser	
170	175	180
Arg Thr Gln Asp Glu His Pro Lys Thr	Met Phe Ser Lys Asp Lys	
185	190	195
Asp Ile Ile Pro Phe Ile Asp Lys Tyr	Trp Glu Cys Met Thr Thr	
200	205	210
Arg Gln Arg Pro Gly Lys Met Thr Trp	Pro Asn Asn Ile Val Lys	
215	220	225
Thr Met Ser Lys Glu Arg Asp Val Phe	Leu Val Lys Glu His Pro	
230	235	240
Asp Pro Gly Ser Lys Asp Pro Glu Glu	Asp Tyr Pro Lys Phe Gly	
245	250	255
Leu Leu Asp Gln Asp Leu Ser Asn Ile	Gly Pro Ala Tyr Asp Asn	
260	265	270
Gln Lys Gln Ser Ser Ala Val Ser Thr	Ser Gly Asn Leu Asn Gly	
275	280	285
Gly Ile Ala Ala Gly Ser Ser Gly Lys	Gly Arg Gly Ala Lys Arg	
290	295	300
Lys Gln Gln Asp Gly Gly Thr Thr Gly	Thr Thr Lys Lys Ala Arg	
305	310	315
Ser Asp Pro Leu Phe Ser Ala Gln Arg	Leu Pro Pro His Gly Tyr	
320	325	330
Pro Leu Glu His Pro Phe Asn Lys Asp	Gly Tyr Arg Tyr Ile Leu	
335	340	345
Ala Glu Pro Asp Pro His Ala Pro Asp	Pro Glu Lys Leu Glu Leu	
350	355	360
Asp Cys Trp Ala Gly Lys Pro Ile Pro	Gly Asp Leu Tyr Arg Ala	
365	370	375
Cys Leu Tyr Glu Arg Val Leu Leu Ala	Leu His Asp Arg Ala Pro	
380	385	390
Gln Leu Lys Ile Ser Asp Asp Arg Leu	Thr Val Val Gly Glu Lys	
395	400	405
Gly Tyr Ser Met Val Arg Ala Ser His	Gly Val Arg Lys Gly Ala	
410	415	420
Trp Tyr Phe Glu Ile Thr Val Asp Glu	Met Pro Pro Asp Thr Ala	
425	430	435
Ala Arg Leu Gly Trp Ser Gln Pro Leu	Gly Asn Leu Gln Ala Pro	
440	445	450
Leu Gly Tyr Asp Lys Phe Ser Tyr Ser	Trp Arg Ser Lys Lys Gly	
455	460	465
Thr Lys Phe His Gln Ser Ile Gly Lys	His Tyr Ser Ser Gly Tyr	
470	475	480
Gly Gln Gly Asp Val Leu Gly Phe Tyr	Ile Asn Leu Pro Glu Asp	
485	490	495
Thr Glu Thr Ala Lys Ser Leu Pro Asp	Thr Tyr Lys Asp Lys Ala	

PF-0741 USN

500	505	510
Leu Ile Lys Phe Lys Ser Tyr Leu Tyr Phe Glu Glu Lys Asp Phe		
515	520	525
Val Asp Lys Ala Glu Lys Ser Leu Lys Gln Thr Pro His Ser Glu		
530	535	540
Ile Ile Phe Tyr Lys Asn Gly Val Asn Gln Gly Val Ala Tyr Lys		
545	550	555
Asp Ile Phe Glu Gly Val Tyr Phe Pro Ala Ile Ser Leu Tyr Lys		
560	565	570
Ser Cys Thr Val Ser Ile Asn Phe Gly Pro Cys Phe Lys Tyr Pro		
575	580	585
Pro Lys Asp Leu Thr Tyr Arg Pro Met Ser Asp Met Gly Trp Gly		
590	595	600
Ala Val Val Glu His Thr Leu Ala Asp Val Leu Tyr His Val Glu		
605	610	615
Thr Glu Val Asp Gly Arg Arg Ser Pro Pro Trp Glu Pro		
620	625	

<210> 12

<211> 259

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2956153CD1

<400> 12

Met Asn Leu Val Asp Leu Trp Leu Thr Arg Ser Leu Ser Met Cys		
1	5	10
Leu Leu Leu Gln Ser Phe Val Leu Met Ile Leu Cys Phe His Ser		
20	25	30
Ala Ser Met Cys Pro Lys Gly Cys Leu Cys Ser Ser Ser Gly Gly		
35	40	45
Leu Asn Val Thr Cys Ser Asn Ala Asn Leu Lys Glu Ile Pro Arg		
50	55	60
Asp Leu Pro Pro Glu Thr Val Leu Leu Tyr Leu Asp Ser Asn Gln		
65	70	75
Ile Thr Ser Ile Pro Asn Glu Ile Phe Lys Asp Leu His Gln Leu		
80	85	90
Arg Val Leu Asn Leu Ser Lys Asn Gly Ile Glu Phe Ile Asp Glu		
95	100	105
His Ala Phe Lys Gly Val Ala Glu Thr Leu Gln Thr Leu Asp Leu		
110	115	120
Ser Asp Asn Arg Ile Gln Ser Val His Lys Asn Ala Phe Asn Asn		
125	130	135
Leu Lys Ala Arg Ala Arg Ile Ala Asn Asn Pro Trp His Cys Asp		
140	145	150
Cys Thr Leu Gln Gln Val Leu Arg Ser Met Ala Ser Asn His Glu		
155	160	165
Thr Ala His Asn Val Ile Cys Lys Thr Ser Val Leu Asp Glu His		
170	175	180
Ala Gly Arg Pro Phe Leu Asn Ala Ala Asn Asp Ala Asp Leu Cys		
185	190	195

PF-0741 USN

Asn	Leu	Pro	Lys	Lys	Thr	Thr	Asp	Tyr	Ala	Met	Leu	Val	Thr	Met
					200				205				210	
Phe	Gly	Trp	Phe	Thr	Met	Val	Ile	Ser	Tyr	Val	Val	Tyr	Tyr	Val
					215				220				225	
Arg	Gln	Asn	Gln	Glu	Asp	Ala	Arg	Arg	His	Leu	Glu	Tyr	Leu	Lys
					230				235				240	
Ser	Leu	Pro	Ser	Arg	Gln	Lys	Lys	Ala	Asp	Glu	Pro	Asp	Asp	Ile
					245				250				255	
Ser	Thr	Val	Val											

<210> 13

<211> 380

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3333139CD1

<400> 13

Met	Ala	Ala	Pro	Trp	Trp	Arg	Ala	Ala	Leu	Cys	Glu	Cys	Arg	Arg
1				5					10				15	
Trp	Arg	Gly	Phe	Ser	Thr	Ser	Ala	Val	Leu	Gly	Arg	Arg	Thr	Pro
					20				25				30	
Pro	Leu	Gly	Pro	Met	Pro	Asn	Ser	Asp	Ile	Asp	Leu	Ser	Asn	Leu
					35				40				45	
Glu	Arg	Leu	Glu	Lys	Tyr	Arg	Ser	Phe	Asp	Arg	Tyr	Arg	Arg	Arg
					50				55				60	
Ala	Glu	Gln	Glu	Ala	Gln	Ala	Pro	His	Trp	Trp	Arg	Thr	Tyr	Arg
					65				70				75	
Glu	Tyr	Phe	Gly	Glu	Lys	Thr	Asp	Pro	Lys	Glu	Lys	Ile	Asp	Ile
					80				85				90	
Gly	Leu	Pro	Pro	Lys	Val	Ser	Arg	Thr	Gln	Gln	Leu	Leu	Glu	
					95				100				105	
Arg	Lys	Gln	Ala	Ile	Gln	Glu	Leu	Arg	Ala	Asn	Val	Glu	Glu	
					110				115				120	
Arg	Ala	Ala	Arg	Leu	Arg	Thr	Ala	Ser	Val	Pro	Leu	Asp	Ala	Val
					125				130				135	
Arg	Ala	Glu	Trp	Glu	Arg	Thr	Cys	Gly	Pro	Tyr	His	Lys	Gln	Arg
					140				145				150	
Leu	Ala	Glu	Tyr	Gly	Leu	Tyr	Arg	Asp	Leu	Phe	His	Gly	Ala	
					155				160				165	
Thr	Phe	Val	Pro	Arg	Val	Pro	Leu	His	Val	Ala	Tyr	Ala	Val	Gly
					170				175				180	
Glu	Asp	Asp	Leu	Met	Pro	Val	Tyr	Cys	Gly	Asn	Glu	Val	Thr	Pro
					185				190				195	
Thr	Glu	Ala	Ala	Gln	Ala	Pro	Glu	Val	Thr	Tyr	Glu	Ala	Glu	Glu
					200				205				210	
Gly	Ser	Leu	Trp	Thr	Leu	Leu	Leu	Thr	Ser	Leu	Asp	Gly	His	Leu
					215				220				225	
Leu	Glu	Pro	Asp	Ala	Glu	Tyr	Leu	His	Trp	Leu	Leu	Thr	Asn	Ile
					230				235				240	
Pro	Gly	Asn	Arg	Val	Ala	Glu	Gly	Gln	Val	Thr	Cys	Pro	Tyr	Leu

PF-0741 USN

245	250	255
Pro Pro Phe Pro Ala Arg Gly Ser Gly Ile His Arg Leu Ala Phe		
260	265	270
Leu Leu Phe Lys Gln Asp Gln Pro Ile Asp Phe Ser Glu Asp Ala		
275	280	285
Arg Pro Ser Pro Cys Tyr Gln Leu Ala Gln Arg Thr Phe Arg Thr		
290	295	300
Phe Asp Phe Tyr Lys Lys His Gln Glu Thr Met Thr Pro Ala Gly		
305	310	315
Leu Ser Phe Phe Gln Cys Arg Trp Asp Asp Ser Val Thr Tyr Ile		
320	325	330
Phe His Gln Leu Leu Asp Met Arg Glu Pro Val Phe Glu Phe Val		
335	340	345
Arg Pro Pro Pro Tyr His Pro Lys Gln Lys Arg Phe Pro His Arg		
350	355	360
Gln Pro Leu Arg Tyr Leu Asp Arg Tyr Arg Asp Ser His Glu Pro		
365	370	375
Thr Tyr Gly Ile Tyr		
380		

<210> 14

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3432292CD1

<400> 14

Met Ser Cys Gln Gln Asn Gln Gln Cys Gln Pro Pro Pro Lys		
1	5	10
Cys Pro Pro Lys Cys Pro Pro Lys Cys Pro Pro Lys Cys Arg Pro		
20	25	30
Gln Cys Pro Ala Pro Cys Pro Pro Val Ser Ser Cys Cys Gly		
35	40	45
Pro Ser Ser Gly Gly Cys Cys Gly Ser Ser Ser Gly Gly Cys Cys		
50	55	60
Ser Ser Gly Gly Gly Cys Cys Leu Ser His His Arg Pro Arg		
65	70	75
Leu Phe His Arg His Arg His Gln Ser Pro Asp Cys Cys Glu Ser		
80	85	90
Glu Leu Leu Gly Ala Leu Ala Ala Ser Thr Ala Leu Gly Thr Ala		
95	100	105
Ala Asp Gln Thr Ser Asn Ile Thr Glu Gln Ala Phe Met Glu Lys		
110	115	120
Thr Cys Lys Arg Gly Thr Cys Pro Gln Glu		
125	130	

<210> 15

<211> 761

<212> PRT

<213> Homo sapiens

PF-0741 USN

<220>

<221> misc_feature

<223> Incyte ID No: 3478571CD1

<400> 15

Met	Ser	Leu	Arg	Ile	Asp	Val	Asp	Thr	Asn	Phe	Pro	Glu	Cys	Val
1									10					15
Val	Asp	Ala	Gly	Lys	Val	Thr	Leu	Gly	Thr	Gln	Gln	Arg	Gln	Glu
					20				25					30
Met	Asp	Pro	Arg	Leu	Arg	Glu	Lys	Gln	Asn	Glu	Ile	Ile	Leu	Arg
						35				40				45
Ala	Val	Cys	Ala	Leu	Leu	Asn	Ser	Gly	Gly	Ile	Ile	Lys	Ala	
					50				55				60	
Glu	Ile	Glu	Asn	Lys	Gly	Tyr	Asn	Tyr	Glu	Arg	His	Gly	Val	Gly
					65				70				75	
Leu	Asp	Val	Pro	Pro	Ile	Phe	Arg	Ser	His	Leu	Asp	Lys	Met	Gln
					80				85				90	
Lys	Glu	Asn	His	Phe	Leu	Ile	Phe	Val	Lys	Ser	Trp	Asn	Thr	Glu
					95				100				105	
Ala	Gly	Val	Pro	Leu	Ala	Thr	Leu	Cys	Ser	Asn	Leu	Tyr	His	Arg
					110				115				120	
Glu	Arg	Thr	Ser	Thr	Asp	Val	Met	Asp	Ser	Gln	Glu	Ala	Leu	Ala
					125				130				135	
Phe	Leu	Lys	Cys	Arg	Thr	Gln	Thr	Pro	Thr	Asn	Ile	Asn	Val	Ser
					140				145				150	
Asn	Ser	Leu	Gly	Pro	Gln	Ala	Ala	Gln	Gly	Ser	Val	Gln	Tyr	Glu
					155				160				165	
Gly	Asn	Ile	Asn	Val	Ser	Ala	Ala	Ala	Leu	Phe	Asp	Arg	Lys	Arg
					170				175				180	
Leu	Gln	Tyr	Leu	Glu	Lys	Leu	Asn	Leu	Pro	Glu	Ser	Thr	His	Val
					185				190				195	
Glu	Phe	Val	Met	Phe	Ser	Thr	Asp	Val	Ser	His	Cys	Val	Lys	Asp
					200				205				210	
Arg	Leu	Pro	Lys	Cys	Val	Ser	Ala	Phe	Ala	Asn	Thr	Glu	Gly	
					215				220				225	
Tyr	Val	Phe	Phe	Gly	Val	His	Asp	Glu	Thr	Cys	Gln	Val	Ile	Gly
					230				235				240	
Cys	Glu	Lys	Glu	Lys	Ile	Asp	Leu	Thr	Ser	Leu	Arg	Ala	Ser	Ile
					245				250				255	
Asp	Gly	Cys	Ile	Lys	Lys	Leu	Pro	Val	His	His	Phe	Cys	Thr	Gln
					260				265				270	
Arg	Pro	Glu	Ile	Lys	Tyr	Val	Leu	Asn	Phe	Leu	Glu	Val	His	Asp
					275				280				285	
Lys	Gly	Ala	Leu	Arg	Gly	Tyr	Val	Cys	Ala	Ile	Lys	Val	Glu	Lys
					290				295				300	
Phe	Cys	Cys	Ala	Val	Phe	Ala	Lys	Val	Pro	Ser	Ser	Trp	Gln	Val
					305				310				315	
Lys	Asp	Asn	Arg	Val	Arg	Gln	Leu	Pro	Thr	Arg	Glu	Trp	Thr	Ala
					320				325				330	
Trp	Met	Met	Glu	Ala	Asp	Pro	Asp	Leu	Ser	Arg	Cys	Pro	Glu	Met
					335				340				345	
Val	Leu	Gln	Leu	Ser	Leu	Ser	Ser	Ala	Thr	Pro	Arg	Ser	Lys	Pro
					350				355				360	
Val	Cys	Ile	His	Lys	Asn	Ser	Glu	Cys	Leu	Lys	Glu	Gln	Gln	Lys

365	370	375
Arg Tyr Phe Pro Val Phe Ser Asp Arg	Val Val Tyr Thr Pro	Glu
380	385	390
Ser Leu Tyr Lys Glu Leu Phe Ser Gln His	Lys Gly Leu Arg Asp	
395	400	405
Leu Ile Asn Thr Glu Met Arg Pro Phe Ser	Gln Gly Ile Leu Ile	
410	415	420
Phe Ser Gln Ser Trp Ala Val Asp Leu	Gly Leu Gln Glu Lys Gln	
425	430	435
Gly Val Ile Cys Asp Ala Leu Leu Ile	Ser Gln Asn Asn Thr Pro	
440	445	450
Ile Leu Tyr Thr Ile Phe Ser Lys Trp	Asp Ala Gly Cys Lys Gly	
455	460	465
Tyr Ser Met Ile Val Ala Tyr Ser Leu	Lys Gln Lys Leu Val Asn	
470	475	480
Lys Gly Gly Tyr Thr Gly Arg Leu Cys	Ile Thr Pro Leu Val Cys	
485	490	495
Val Leu Asn Ser Asp Arg Lys Ala Gln	Ser Val Tyr Ser Ser Tyr	
500	505	510
Leu Gln Ile Tyr Pro Glu Ser Tyr Asn	Phe Met Thr Pro Gln His	
515	520	525
Met Glu Ala Leu Leu Gln Ser Leu Val	Ile Val Leu Leu Gly Phe	
530	535	540
Lys Ser Phe Leu Ser Glu Glu Leu Gly	Ser Glu Val Leu Asn Leu	
545	550	555
Leu Thr Asn Lys Gln Tyr Glu Leu Leu	Ser Lys Asn Leu Arg Lys	
560	565	570
Thr Arg Glu Leu Phe Val His Gly Leu	Pro Gly Ser Gly Lys Thr	
575	580	585
Ile Leu Ala Leu Arg Ile Met Glu Lys	Ile Arg Asn Val Phe His	
590	595	600
Cys Glu Pro Ala Asn Ile Leu Tyr Ile	Cys Glu Asn Gln Pro Leu	
605	610	615
Lys Lys Leu Val Ser Phe Ser Lys Lys	Asn Ile Cys Gln Pro Val	
620	625	630
Thr Arg Lys Thr Phe Met Lys Asn Asn	Phe Glu His Ile Gln His	
635	640	645
Ile Ile Ile Asp Asp Ala Gln Asn Phe	Arg Thr Glu Asp Gly Asp	
650	655	660
Trp Tyr Gly Lys Ala Lys Phe Ile Thr	Gln Thr Ala Arg Asp Gly	
665	670	675
Pro Gly Val Leu Trp Ile Phe Leu Asp	Tyr Phe Gln Thr Tyr His	
680	685	690
Leu Ser Cys Ser Gly Leu Pro Pro Pro	Ser Asp Gln Tyr Pro Arg	
695	700	705
Glu Glu Ile Asn Arg Val Val Arg Asn	Ala Gly Pro Ile Ala Asn	
710	715	720
Tyr Leu Gln Gln Val Met Gln Glu Ala	Arg Gln Asn Pro Pro Pro	
725	730	735
Asn Leu Pro Pro Gly Ser Leu Val Met	Leu Tyr Glu Pro Lys Trp	
740	745	750
Ala Gln Gly Cys Pro Arg Gln Leu Arg	Asp Tyr	
755	760	

PF-0741 USN

<210> 16
<211> 197
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3495166CD1

<400> 16

Met	Ser	Ser	Ala	Pro	Ala	Ser	Gly	Pro	Ala	Pro	Ala	Ser	Leu	Thr
1														15
Leu	Trp	Asp	Glu	Glu	Asp	Phe	Gln	Gly	Arg	Arg	Cys	Arg	Leu	Leu
									20	25				30
Ser	Asp	Cys	Ala	Asn	Val	Cys	Glu	Arg	Gly	Gly	Leu	Pro	Arg	Val
									35	40				45
Arg	Ser	Val	Lys	Val	Glu	Asn	Gly	Val	Trp	Val	Ala	Phe	Glu	Tyr
									50	55				60
Pro	Asp	Phe	Gln	Gly	Gln	Phe	Ile	Leu	Glu	Lys	Gly	Asp	Tyr	
									65	70				75
Pro	Arg	Trp	Ser	Ala	Trp	Ser	Gly	Ser	Ser	Ser	His	Asn	Ser	Asn
									80	85				90
Gln	Leu	Leu	Ser	Phe	Arg	Pro	Val	Leu	Cys	Ala	Asn	His	Asn	Asp
									95	100				105
Ser	Arg	Val	Thr	Leu	Phe	Glu	Gly	Asp	Asn	Phe	Gln	Gly	Cys	Lys
									110	115				120
Phe	Asp	Leu	Val	Asp	Asp	Tyr	Pro	Ser	Leu	Pro	Ser	Met	Gly	Trp
									125	130				135
Ala	Ser	Lys	Asp	Val	Gly	Ser	Leu	Lys	Val	Ser	Ser	Gly	Ala	Trp
									140	145				150
Val	Ala	Tyr	Gln	Tyr	Pro	Gly	Tyr	Arg	Gly	Tyr	Gln	Tyr	Val	Leu
									155	160				165
Glu	Arg	Asp	Arg	His	Ser	Gly	Glu	Phe	Cys	Thr	Tyr	Gly	Glu	Leu
									170	175				180
Gly	Thr	Gln	Ala	His	Thr	Gly	Gln	Leu	Gln	Ser	Ile	Arg	Arg	Val
									185	190				195
Gln	His													

<210> 17
<211> 339
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3554748CD1

<400> 17

Met	Pro	Glu	Cys	Trp	Asp	Gly	Glu	His	Asp	Ile	Glu	Thr	Pro	Tyr
1														15
Gly	Leu	Leu	His	Val	Val	Ile	Arg	Gly	Ser	Pro	Lys	Gly	Asn	Arg
									20	25				30
Pro	Ala	Ile	Leu	Thr	Tyr	His	Asp	Val	Gly	Leu	Asn	His	Lys	Leu

35	40	45
Cys Phe Asn Thr	Phe Phe Asn Phe Glu	Asp Met Gln Glu Ile
50	55	60
Lys His Phe Val Val	Cys His Val Asp Ala	Pro Gly Gln Gln Val
65	70	75
Gly Ala Ser Gln Phe Pro Gln Gly Tyr	Gln Phe Pro Ser Met	Glu
80	85	90
Gln Leu Ala Ala Met Leu Pro Ser Val	Val Gln His Phe Gly	Phe
95	100	105
Lys Tyr Val Ile Gly Ile Gly Val Gly	Ala Gly Ala Tyr Val	Leu
110	115	120
Ala Lys Phe Ala Leu Ile Phe Pro Asp	Leu Val Glu Gly Leu	Val
125	130	135
Leu Val Asn Ile Asp Pro Asn Gly Lys	Gly Trp Ile Asp Trp	Ala
140	145	150
Ala Thr Lys Leu Ser Gly Leu Thr Ser	Thr Leu Pro Asp Thr	Val
155	160	165
Leu Ser His Leu Phe Ser Gln Glu Glu	Leu Val Asn Asn Thr	Glu
170	175	180
Leu Val Gln Ser Tyr Arg Gln Gln Ile	Gly Asn Val Val Asn	Gln
185	190	195
Ala Asn Leu Gln Leu Phe Trp Asn Met	Tyr Asn Ser Arg Arg	Asp
200	205	210
Leu Asp Ile Asn Arg Pro Gly Thr Val	Pro Asn Ala Lys Thr	Leu
215	220	225
Arg Cys Pro Val Met Leu Val Val Gly	Asp Asn Ala Pro Ala	Glu
230	235	240
Asp Gly Val Val Glu Cys Asn Ser Lys	Leu Asp Pro Thr Thr	Thr
245	250	255
Thr Phe Leu Lys Met Ala Asp Ser Gly	Gly Leu Pro Gln Val	Thr
260	265	270
Gln Pro Gly Lys Leu Thr Glu Ala Phe	Lys Tyr Phe Leu Gln	Gly
275	280	285
Met Gly Tyr Met Pro Ser Ala Ser Met	Thr Arg Leu Ala Arg	Ser
290	295	300
Arg Thr Ala Ser Leu Thr Ser Ala Ser	Ser Val Asp Gly Ser	Arg
305	310	315
Pro Gln Ala Cys Thr His Ser Glu Ser	Ser Glu Gly Leu Gly	Gln
320	325	330
Val Asn His Thr Met Glu Val Ser Cys		
335		

<210> 18
<211> 109
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3555629CD1

<220>
<221> unsure
<222> (1) ... (109)

PF-0741 USN

<223> unknown or other

<400> 18

Met	Glu	Arg	Gln	Leu	Arg	Asn	Leu	Arg						
1			5				10				15			
Asp	Phe	Leu	Leu	Val	Tyr	Asn	Arg	Met	Thr	Glu	Leu	Cys	Phe	Gln
				20					25				30	
Arg	Cys	Val	Pro	Ser	Leu	His	His	Arg	Ala	Leu	Asp	Ala	Glu	Glu
					35				40			45		
Glu	Ala	Cys	Val	Pro	Ser	Cys	Ala	Gly	Lys	Leu	Ile	His	Ser	Asn
					50				55			60		
His	Arg	Leu	Met	Ala	Ala	Tyr	Val	Gln	Leu	Met	Pro	Ala	Leu	Val
					65				70			75		
Gln	Arg	Arg	Ile	Ala	Asp	Tyr	Glu	Ala	Ala	Ser	Ala	Val	Pro	Gly
					80				85			90		
Val	Ala	Ala	Glu	Gln	Pro	Gly	Val	Ser	Pro	Ser	Gly	Ser	Ser	Asp
					95				100			105		
Xaa	Xaa	Xaa	Xaa											

<210> 19

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 639636CD1

<400> 19

Met	Thr	Lys	Lys	Lys	Val	Ser	Gln	Lys	Lys	Gln	Arg	Gly	Arg	Pro
1				5				10			15			
Ser	Ser	Gln	Pro	Arg	Arg	Asn	Ile	Val	Gly	Cys	Arg	Ile	Ser	His
					20				25			30		
Gly	Trp	Lys	Glu	Gly	Asp	Glu	Pro	Ile	Thr	Gln	Trp	Lys	Gly	Thr
					35				40			45		
Val	Leu	Asp	Gln	Leu	Leu	Asp	Asp	Tyr	Lys	Glu	Gly	Asp	Leu	Arg
					50				55			60		
Ile	Met	Pro	Glu	Ser	Ser	Glu	Ser	Pro	Pro	Thr	Glu	Arg	Glu	Pro
					65				70			75		
Gly	Gly	Val	Val	Asp	Gly	Leu	Ile	Gly	Lys	His	Val	Glu	Tyr	Thr
					80				85			90		
Lys	Glu	Asp	Gly	Ser	Lys	Arg	Ile	Gly	Met	Val	Ile	His	Gln	Val
					95				100			105		
Glu	Ala	Lys	Pro	Ser	Val	Tyr	Phe	Ile	Lys	Phe	Asp	Asp	Asp	Phe
					110				115			120		
His	Ile	Tyr	Val	Tyr	Asp	Leu	Val	Lys	Lys	Ser				
					125				130					

<210> 20

<211> 194

<212> PRT

<213> Homo sapiens

PF-0741 USN

<220>

<221> misc_feature

<223> Incyte ID No: 902218CD1

<400> 20

Met	Gly	Ala	Asn	Gln	Leu	Val	Val	Leu	Asn	Val	Tyr	Asp	Met	Tyr
1					5				10					15
Trp	Met	Asn	Glu	Tyr	Thr	Ser	Ser	Ile	Gly	Ile	Gly	Val	Phe	His
					20				25					30
Ser	Gly	Ile	Glu	Val	Tyr	Gly	Arg	Glu	Phe	Ala	Tyr	Gly	Gly	His
					35				40					45
Pro	Tyr	Pro	Phe	Ser	Gly	Ile	Phe	Glu	Ile	Ser	Pro	Gly	Asn	Ala
					50				55					60
Ser	Glu	Leu	Gly	Glu	Thr	Phe	Lys	Phe	Lys	Glu	Ala	Val	Val	Leu
					65				70					75
Gly	Ser	Thr	Asp	Phe	Leu	Glu	Asp	Asp	Ile	Glu	Lys	Ile	Val	Glu
					80				85					90
Glu	Leu	Gly	Lys	Glu	Tyr	Lys	Gly	Asn	Ala	Tyr	His	Leu	Met	His
					95				100					105
Lys	Asn	Cys	Asn	His	Phe	Ser	Ser	Ala	Leu	Ser	Glu	Ile	Leu	Cys
					110				115					120
Gly	Lys	Glu	Ile	Pro	Arg	Trp	Ile	Asn	Arg	Leu	Ala	Tyr	Phe	Ser
					125				130					135
Ser	Cys	Ile	Pro	Phe	Leu	Gln	Ser	Cys	Leu	Pro	Lys	Glu	Trp	Leu
					140				145					150
Thr	Pro	Ala	Ala	Leu	Gln	Ser	Ser	Val	Ser	Gln	Glu	Leu	Gln	Asp
					155				160					165
Glu	Leu	Glu	Glu	Ala	Glu	Asp	Ala	Ala	Ala	Ser	Ala	Ser	Val	Ala
					170				175					180
Ser	Thr	Ala	Ala	Gly	Ser	Arg	Pro	Gly	Arg	His	Thr	Lys	Leu	
					185				190					

<210> 21

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1360522CD1

<400> 21

Met	Ala	Thr	Ala	Leu	Ala	Leu	Arg	Ser	Leu	Tyr	Arg	Ala	Arg	Pro
1					5				10					15
Ser	Leu	Arg	Cys	Pro	Pro	Val	Glu	Leu	Pro	Trp	Ala	Pro	Arg	Arg
					20				25					30
Gly	His	Arg	Leu	Ser	Pro	Ala	Asp	Asp	Glu	Leu	Tyr	Gln	Arg	Thr
					35				40					45
Arg	Ile	Ser	Leu	Leu	Gln	Arg	Glu	Ala	Ala	Gln	Ala	Met	Tyr	Ile
					50				55					60
Asp	Ser	Tyr	Asn	Ser	Arg	Gly	Phe	Met	Ile	Asn	Gly	Asn	Arg	Val
					65				70					75
Leu	Gly	Pro	Cys	Ala	Leu	Leu	Pro	His	Ser	Val	Val	Gln	Trp	Asn
					80				85					90

PF-0741 USN

Val Gly Ser His Gln Asp Ile Thr Glu Asp Ser Phe Ser Leu Phe
95 100 105
Trp Leu Leu Glu Pro Arg Ile Glu Ile Val Val Val Gly Thr Gly
110 115 120
Asp Arg Thr Glu Arg Leu Gln Ser Gln Val Leu Gln Ala Met Arg
125 130 135
Gln Arg Gly Ile Ala Val Glu Val Gln Asp Thr Pro Asn Ala Cys
140 145 150
Ala Thr Phe Asn Phe Leu Cys His Glu Gly Arg Val Thr Gly Ala
155 160 165
Ala Leu Ile Pro Pro Pro Gly Gly Thr Ser Leu Thr Ser Leu Gly
170 175 180
Gln Ala Ala Gln

<210> 22

<211> 528

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1400678CD1

<400> 22

Met Ala Ser Met Arg Glu Ser Asp Thr Gly Leu Trp Leu His Asn
1 5 10 15
Lys Leu Gly Ala Thr Asp Glu Leu Trp Ala Pro Pro Ser Ile Ala
20 25 30
Ser Leu Leu Thr Ala Ala Val Ile Asp Asn Ile Arg Leu Cys Phe
35 40 45
His Gly Leu Ser Ser Ala Val Lys Leu Lys Leu Leu Gly Thr
50 55 60
Leu His Leu Pro Arg Arg Thr Val Asp Glu Met Lys Gly Ala Leu
65 70 75
Met Glu Ile Ile Gln Leu Ala Ser Leu Asp Ser Asp Pro Trp Val
80 85 90
Leu Met Val Ala Asp Ile Leu Lys Ser Phe Pro Asp Thr Gly Ser
95 100 105
Leu Asn Leu Glu Leu Glu Glu Gln Asn Pro Asn Val Gln Asp Ile
110 115 120
Leu Gly Glu Leu Arg Glu Lys Val Gly Glu Cys Glu Ala Ser Ala
125 130 135
Met Leu Pro Leu Glu Cys Gln Tyr Leu Asn Lys Asn Ala Leu Thr
140 145 150
Thr Leu Ala Gly Pro Leu Thr Pro Pro Val Lys His Phe Gln Leu
155 160 165
Lys Arg Lys Pro Lys Ser Ala Thr Leu Arg Ala Glu Leu Leu Gln
170 175 180
Lys Ser Thr Glu Thr Ala Gln Gln Leu Lys Arg Ser Ala Gly Val
185 190 195
Pro Phe His Ala Lys Gly Arg Gly Leu Leu Arg Lys Met Asp Thr
200 205 210
Thr Thr Pro Leu Lys Gly Ile Pro Lys Gln Ala Pro Phe Arg Ser

215	220	225
Pro Thr Ala Pro Ser Val Phe Ser Pro	Thr Gly Asn Arg Thr	Pro
230	235	240
Ile Pro Pro Ser Arg Thr Leu Leu Arg	Lys Glu Arg Gly Val	Lys
245	250	255
Leu Leu Asp Ile Ser Glu Leu Asp Met	Val Gly Ala Gly Arg	Glu
260	265	270
Ala Lys Arg Arg Arg Lys Thr Leu Asp	Ala Glu Val Val Glu	Lys
275	280	285
Pro Ala Lys Glu Glu Thr Val Val Glu	Asn Ala Thr Pro Asp	Tyr
290	295	300
Ala Ala Gly Leu Val Ser Thr Gln Lys	Leu Gly Ser Leu Asn	Asn
305	310	315
Glu Pro Ala Leu Pro Ser Thr Ser Tyr	Leu Pro Ser Thr Pro	Ser
320	325	330
Val Val Pro Ala Ser Ser Tyr Ile Pro	Ser Ser Glu Thr Pro	Pro
335	340	345
Ala Pro Ser Ser Arg Glu Ala Ser Arg	Pro Pro Glu Glu Pro	Ser
350	355	360
Ala Pro Ser Pro Thr Leu Pro Ala Gln	Phe Lys Gln Arg Ala	Pro
365	370	375
Met Tyr Asn Ser Gly Leu Ser Pro Ala	Thr Pro Thr Pro Ala	Ala
380	385	390
Pro Thr Ser Pro Leu Thr Pro Thr Thr	Pro Pro Ala Val Ala	Pro
395	400	405
Thr Thr Gln Thr Pro Pro Val Ala Met	Val Ala Pro Gln Thr	Gln
410	415	420
Ala Pro Ala Gln Gln Pro Lys Lys	Asn Leu Ser Leu Thr	Arg
425	430	435
Glu Gln Met Phe Ala Ala Gln Glu Met	Phe Lys Thr Ala Asn	Lys
440	445	450
Val Thr Arg Pro Glu Lys Ala Leu Ile	Leu Gly Phe Met Ala	Gly
455	460	465
Ser Arg Glu Asn Pro Cys Gln Glu Gln	Gly Asp Val Ile Gln	Ile
470	475	480
Lys Leu Ser Glu His Thr Glu Asp Leu	Pro Lys Ala Asp Gly	Gln
485	490	495
Gly Ser Thr Thr Met Leu Val Asp Thr	Val Phe Glu Met Asn	Tyr
500	505	510
Ala Thr Gly Gln Trp Thr Arg Phe Lys	Lys Tyr Lys Pro Met	Thr
515	520	525
Asn Val Ser		

<210> 23
<211> 298
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1435556CD1

<400> 23

PF-0741 USN

Met	Thr	Thr	Ile	Tyr	Asp	Leu	Lys	Gln	Lys	Asp	Lys	Leu	Leu	
1									10				15	
Lys	Phe	Tyr	Ala	Glu	Ser	Asp	Glu	Gln	Ile	Leu	Met	Lys	Asn	Arg
									20			25		30
Lys	Thr	Leu	His	Lys	Ala	Lys	Asn	Glu	Asp	Leu	Asp	Arg	Val	Leu
									35			40		45
Lys	Glu	Trp	Ile	Arg	Gln	Arg	Arg	Ser	Glu	His	Met	Pro	Leu	Asn
									50			55		60
Gly	Met	Leu	Ile	Met	Lys	Gln	Ala	Lys	Ile	Tyr	His	Asn	Glu	Leu
									65			70		75
Lys	Ile	Glu	Gly	Asn	Cys	Glu	Tyr	Ser	Thr	Gly	Trp	Leu	Gln	Lys
									80			85		90
Phe	Lys	Lys	Arg	His	Gly	Ile	Lys	Phe	Leu	Lys	Thr	Cys	Gly	Asn
									95			100		105
Lys	Ala	Ser	Ala	Gly	His	Glu	Ala	Thr	Glu	Lys	Phe	Thr	Gly	Asn
									110			115		120
Phe	Ser	Asn	Asp	Asp	Glu	Gln	Asp	Gly	Asn	Phe	Glu	Gly	Phe	Ser
									125			130		135
Met	Ser	Ser	Glu	Lys	Ile	Met	Ser	Asp	Leu	Leu	Thr	Tyr	Thr	
									140			145		150
Lys	Asn	Ile	His	Pro	Glu	Thr	Val	Ser	Lys	Leu	Glu	Glu	Glu	Asp
									155			160		165
Ile	Lys	Asp	Val	Phe	Asn	Ser	Asn	Asn	Glu	Ala	Pro	Val	Val	His
									170			175		180
Ser	Leu	Ser	Asn	Gly	Glu	Val	Thr	Lys	Met	Val	Leu	Asn	Gln	Asp
									185			190		195
Asp	His	Asp	Asp	Asn	Asp	Asn	Glu	Asp	Asp	Val	Asn	Thr	Ala	Glu
									200			205		210
Lys	Val	Pro	Ile	Asp	Asp	Met	Val	Lys	Met	Cys	Asp	Gly	Leu	Ile
									215			220		225
Lys	Gly	Leu	Glu	Gln	His	Ala	Phe	Ile	Thr	Glu	Gln	Glu	Ile	Met
									230			235		240
Ser	Val	Tyr	Lys	Ile	Lys	Glu	Arg	Leu	Leu	Arg	Gln	Lys	Ala	Ser
									245			250		255
Leu	Met	Arg	Gln	Met	Thr	Leu	Lys	Glu	Thr	Phe	Lys	Lys	Ala	Ile
									260			265		270
Gln	Arg	Asn	Ala	Ser	Ser	Ser	Leu	Gln	Asp	Pro	Leu	Leu	Gly	Pro
									275			280		285
Ser	Thr	Ala	Ser	Asp	Ala	Ser	Ser	His	Leu	Lys	Ile	Lys		
									290			295		

<210> 24

<211> 630

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1546633CD1

<400> 24

Met Pro Gln Gln Gln His Lys Val Ser Pro Ala Ser Glu Ser Pro

1 5 10 15

Phe Ser Glu Glu Glu Ser Arg Glu Phe Asn Pro Ser Ser Ser Gly

20	25	30
Arg Ser Ala Arg Thr Val Ser Ser Asn Ser Phe Cys Ser Asp Asp		
35	40	45
Thr Gly Cys Pro Ser Ser Gln Ser Val Ser Pro Val Lys Thr Pro		
50	55	60
Ser Asp Ala Gly Asn Ser Pro Ile Gly Phe Cys Pro Gly Ser Asp		
65	70	75
Glu Gly Phe Thr Arg Lys Lys Cys Thr Ile Gly Met Val Gly Glu		
80	85	90
Gly Ser Ile Gln Ser Ser Arg Tyr Lys Lys Glu Ser Lys Ser Gly		
95	100	105
Leu Val Lys Pro Gly Ser Glu Ala Asp Phe Ser Ser Ser Ser Ser		
110	115	120
Thr Gly Ser Ile Ser Ala Pro Glu Val His Met Ser Thr Ala Gly		
125	130	135
Ser Lys Arg Ser Ser Ser Arg Asn Arg Gly Pro His Gly Arg		
140	145	150
Ser Asn Gly Ala Ser Ser His Lys Pro Gly Ser Ser Pro Ser Ser		
155	160	165
Pro Arg Glu Lys Asp Leu Leu Ser Met Leu Cys Arg Asn Gln Leu		
170	175	180
Ser Pro Val Asn Ile His Pro Ser Tyr Ala Pro Ser Ser Pro Ser		
185	190	195
Ser Ser Asn Ser Gly Ser Tyr Lys Gly Ser Asp Cys Ser Pro Ile		
200	205	210
Met Arg Arg Ser Gly Arg Tyr Met Ser Cys Gly Glu Asn His Gly		
215	220	225
Val Arg Pro Pro Asn Pro Glu Gln Tyr Leu Thr Pro Leu Gln Gln		
230	235	240
Lys Glu Val Thr Val Arg His Leu Lys Ile Lys Leu Lys Glu Ser		
245	250	255
Glu Arg Arg Leu His Glu Arg Glu Ser Glu Ile Val Glu Leu Lys		
260	265	270
Ser Gln Leu Ala Arg Met Arg Glu Asp Trp Ile Glu Glu Glu Cys		
275	280	285
His Arg Val Glu Ala Gln Leu Ala Leu Lys Glu Ala Arg Lys Glu		
290	295	300
Ile Lys Gln Leu Lys Gln Val Ile Glu Thr Met Arg Ser Ser Leu		
305	310	315
Ala Asp Lys Asp Lys Gly Ile Gln Lys Tyr Phe Val Asp Ile Asn		
320	325	330
Ile Gln Asn Lys Lys Leu Glu Ser Leu Leu Gln Ser Met Glu Met		
335	340	345
Ala His Ser Gly Ser Leu Arg Asp Glu Leu Cys Leu Asp Phe Pro		
350	355	360
Cys Asp Ser Pro Glu Lys Ser Leu Thr Leu Asn Pro Pro Leu Asp		
365	370	375
Thr Met Ala Asp Gly Leu Ser Leu Glu Glu Gln Val Thr Gly Glu		
380	385	390
Gly Ala Asp Arg Glu Leu Leu Val Gly Asp Ser Ile Ala Asn Ser		
395	400	405
Thr Asp Leu Phe Asp Glu Ile Val Thr Ala Thr Thr Thr Glu Ser		
410	415	420
Gly Asp Leu Glu Leu Val His Ser Thr Pro Gly Ala Asn Val Leu		

PF-0741 USN

425	430	435
Glu Leu Leu Pro Ile Val Met Gly Gln	Glu Glu Gly Ser Val Val	
440	445	450
Val Glu Arg Ala Val Gln Thr Asp Val	Val Pro Tyr Ser Pro Ala	
455	460	465
Ile Ser Glu Leu Ile Gln Ser Val Leu	Gln Lys Leu Gln Asp Pro	
470	475	480
Cys Pro Ser Ser Leu Ala Ser Pro Asp	Glu Ser Glu Pro Asp Ser	
485	490	495
Met Glu Ser Phe Pro Glu Ser Leu Ser	Ala Leu Val Val Asp Leu	
500	505	510
Thr Pro Arg Asn Pro Asn Ser Ala Ile	Leu Leu Ser Pro Val Glu	
515	520	525
Thr Pro Tyr Ala Asn Val Asp Ala Glu	Val His Ala Asn Arg Leu	
530	535	540
Met Arg Glu Leu Asp Phe Ala Ala Cys	Val Glu Glu Arg Leu Asp	
545	550	555
Gly Val Ile Pro Leu Ala Arg Gly Gly	Val Val Arg Gln Tyr Trp	
560	565	570
Ser Ser Ser Phe Leu Val Asp Leu Leu	Ala Val Ala Ala Pro Val	
575	580	585
Val Pro Thr Val Leu Trp Ala Phe Ser	Thr Gln Arg Gly Gly Thr	
590	595	600
Asp Pro Val Tyr Asn Ile Gly Ala Leu	Leu Arg Gly Cys Cys Val	
605	610	615
Val Ala Leu His Ser Leu Arg Arg Thr	Ala Phe Arg Ile Lys Thr	
620	625	630

<210> 25
<211> 339
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1794031CD1

<400> 25

Met Asp Glu Asp Leu Ser Ala Ser Gln Asp His Ser Gln Ala Val			
1	5	10	15
Thr Leu Ile Gln Glu Lys Met Thr Leu Phe Lys Ser Leu Met Asp			
20	25	30	
Arg Phe Glu His His Ser Asn Ile Leu Leu Thr Phe Glu Asn Lys			
35	40	45	
Asp Glu Asn His Leu Pro Leu Val Pro Pro Asn Lys Leu Glu Glu			
50	55	60	
Met Lys Arg Arg Ile Asn Asn Ile Leu Glu Lys Lys Phe Ile Leu			
65	70	75	
Leu Leu Glu Phe His Tyr Tyr Lys Cys Leu Val Leu Gly Leu Val			
80	85	90	
Asp Glu Val Lys Ser Lys Leu Asp Ile Trp Asn Ile Lys Tyr Gly			
95	100	105	
Ser Arg Glu Ser Val Glu Leu Leu Glu Asp Trp His Lys Phe			

110	115	120
Ile Glu Glu Lys Glu Phe Leu Ala Arg	Leu Asp Thr Ser Phe Gln	
125	130	135
Lys Cys Gly Glu Ile Tyr Lys Asn Leu	Ala Gly Glu Cys Gln Asn	
140	145	150
Ile Asn Lys Gln Tyr Met Met Val Lys	Ser Asp Val Cys Met Tyr	
155	160	165
Arg Lys Asn Ile Tyr Asn Val Lys Ser	Thr Leu Gln Lys Val Leu	
170	175	180
Ala Cys Trp Ala Thr Tyr Val Glu Asn	Leu Arg Leu Leu Arg Ala	
185	190	195
Cys Phe Glu Glu Thr Lys Lys Glu Glu	Ile Lys Glu Val Pro Phe	
200	205	210
Glu Thr Leu Ala Gln Trp Asn Leu Glu	His Ala Thr Leu Asn Glu	
215	220	225
Ala Gly Asn Phe Leu Val Glu Val Ser	Asn Asp Val Val Gly Ser	
230	235	240
Ser Ile Ser Lys Glu Leu Arg Arg Leu	Asn Lys Arg Trp Arg Lys	
245	250	255
Leu Val Ser Lys Thr Gln Leu Glu Met	Asn Leu Pro Leu Met Ile	
260	265	270
Lys Lys Gln Asp Gln Pro Thr Phe Asp	Asn Ser Gly Asn Ile Leu	
275	280	285
Ser Lys Glu Glu Lys Ala Thr Val Glu	Phe Ser Thr Asp Met Ser	
290	295	300
Val Glu Leu Pro Glu Asn Tyr Asn Gln	Asn Ile Lys Ala Gly Glu	
305	310	315
Lys His Glu Lys Glu Asn Glu Phe Thr	Gly Gln Leu Lys Val	
320	325	330
Ala Lys Asp Val Glu Lys Leu Ile Gly		
335		

<210> 26

<211> 189

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2060563CD1

<400> 26

Met Leu Gly Met Ile Lys Asn Ser Leu Phe Gly Ser Val Glu Thr			
1	5	10	15
Trp Pro Trp Gln Val Leu Ser Lys Gly Asp Lys Glu Glu Val Ala			
20	25	30	
Tyr Glu Glu Arg Ala Cys Glu Gly Gly Lys Phe Ala Thr Val Glu			
35	40	45	
Val Thr Asp Lys Pro Val Asp Glu Ala Leu Arg Glu Ala Met Pro			
50	55	60	
Lys Val Ala Lys Tyr Ala Gly Gly Thr Asn Asp Lys Gly Ile Gly			
65	70	75	
Met Gly Met Thr Val Pro Ile Ser Phe Ala Val Phe Pro Asn Glu			
80	85	90	

PF-0741 USN

Asp Gly Ser Leu Gln Lys Lys Leu Lys Val Trp Phe Arg Ile Pro
95 100 105
Asn Gln Phe Gln Ser Asp Pro Pro Ala Pro Ser Asp Lys Ser Val
110 115 120
Lys Ile Glu Glu Arg Glu Gly Ile Thr Val Tyr Ser Met Gln Phe
125 130 135
Gly Gly Tyr Ala Lys Glu Ala Asp Tyr Val Ala Gln Ala Thr Arg
140 145 150
Leu Arg Ala Ala Leu Glu Gly Thr Ala Thr Tyr Arg Gly Asp Ile
155 160 165
Tyr Phe Cys Thr Gly Tyr Asp Pro Pro Met Lys Pro Tyr Gly Arg
170 175 180
Arg Asn Glu Ile Trp Leu Leu Lys Thr
185

<210> 27

<211> 530

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2573955CD1

<400> 27

Met Leu Leu Trp Pro Leu Leu Leu Leu Leu Leu Pro Thr
1 5 10 15
Leu Ala Leu Leu Arg Gln Gln Arg Ser Gln Asp Ala Arg Leu Ser
20 25 30
Trp Leu Ala Gly Leu Gln His Arg Val Ala Trp Gly Ala Leu Val
35 40 45
Trp Ala Ala Thr Trp Gln Arg Arg Arg Leu Glu Gln Ser Thr Leu
50 55 60
His Val His Gln Ser Gln Gln Ala Leu Arg Trp Cys Leu Gln
65 70 75
Gly Ala Gln Arg Pro His Cys Ser Leu Arg Arg Ser Thr Asp Ile
80 85 90
Ser Thr Phe Arg Asn His Leu Pro Leu Thr Lys Ala Ser Gln Thr
95 100 105
Gln Gln Glu Asp Ser Gly Glu Gln Pro Leu Ala Pro Thr Ser Asn
110 115 120
Gln Asp Leu Gly Glu Ala Ser Leu Gln Ala Thr Leu Leu Gly Leu
125 130 135
Ala Ala Leu Asn Lys Ala Tyr Pro Glu Val Leu Ala Gln Gly Arg
140 145 150
Thr Ala Arg Val Thr Leu Thr Ser Pro Trp Pro Arg Pro Leu Pro
155 160 165
Trp Pro Gly Asn Thr Leu Gly Gln Val Gly Thr Pro Gly Thr Lys
170 175 180
Asp Pro Arg Ala Leu Leu Leu Asp Ala Leu Arg Ser Pro Gly Leu
185 190 195
Arg Ala Leu Glu Ala Gly Thr Ala Val Glu Leu Leu Asp Val Phe
200 205 210
Leu Gly Leu Glu Thr Asp Gly Glu Glu Leu Ala Gly Ala Ile Ala

PF-0741 USN

215	220	225
Ala Gly Asn Pro Gly Ala Pro Leu Arg	Glu Arg Ala Ala Glu	Leu
230	235	240
Arg Glu Ala Leu Glu Gln Gly Pro Arg	Gly Leu Ala Leu Arg	Leu
245	250	255
Trp Pro Lys Leu Gln Val Val Val Thr	Leu Asp Ala Gly Gly	Gln
260	265	270
Ala Glu Ala Val Ala Ala Leu Gly Ala	Leu Trp Cys Gln Gly	Leu
275	280	285
Ala Phe Phe Ser Pro Ala Tyr Ala Ala	Ser Gly Gly Val	Leu Gly
290	295	300
Leu Asn Leu Gln Pro Glu Gln Pro His	Gly Leu Tyr Leu Leu	Pro
305	310	315
Pro Gly Ala Pro Phe Ile Glu Leu Leu	Pro Val Lys Glu Gly	Thr
320	325	330
Gln Glu Glu Ala Ala Ser Thr Leu Leu	Leu Ala Glu Ala Gln	Gln
335	340	345
Gly Lys Glu Tyr Glu Leu Val Leu Thr	Asp Arg Ala Ser	Leu Thr
350	355	360
Arg Cys Arg Leu Gly Asp Val Val Arg	Val Val Gly Ala Tyr	Asn
365	370	375
Gln Cys Pro Val Val Arg Phe Ile Cys	Arg Leu Asp Gln	Thr Leu
380	385	390
Ser Val Arg Gly Glu Asp Ile Gly Glu	Asp Leu Phe Ser	Glu Ala
395	400	405
Leu Gly Arg Ala Val Gly Gln Trp Ala	Gly Ala Lys Leu Leu	Asp
410	415	420
His Gly Cys Val Glu Ser Ser Ile Leu	Asp Ser Ser Ala Gly	Ser
425	430	435
Ala Pro His Tyr Glu Val Phe Val Ala	Leu Arg Gly Leu Arg	Asn
440	445	450
Leu Ser Glu Glu Asn Arg Asp Lys Leu	Asp His Cys Leu Gln	Glu
455	460	465
Ala Ser Pro Arg Tyr Lys Ser Leu Arg	Phe Trp Gly Ser Val	Gly
470	475	480
Pro Ala Arg Val His Leu Val Gly Gln	Gly Ala Phe Arg Ala	Leu
485	490	495
Arg Ala Ala Leu Ala Ala Cys Pro Ser	Ser Pro Phe Pro Pro	Ala
500	505	510
Met Pro Arg Val Leu Arg His Arg His	Leu Ala Gln Cys Leu	Gln
515	520	525
Glu Arg Val Val Ser		
530		

<210> 28

<211> 356

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3404792CD1

<400> 28

PF-0741 USN

Met Ala Gly Leu Gly Ser Asp Pro Trp Trp Lys Lys Thr Leu Tyr			
1	5	10	15
Leu Thr Gly Gly Ala Leu Leu Ala Ala Ala Tyr Leu Leu His			
20	25	30	
Glu Leu Leu Val Ile Arg Lys Gln Gln Glu Ile Asp Ser Lys Asp			
35	40	45	
Ala Ile Ile Leu His Gln Phe Ala Arg Pro Asn Asn Gly Val Pro			
50	55	60	
Ser Leu Ser Pro Phe Cys Leu Lys Met Glu Thr Tyr Leu Arg Met			
65	70	75	
Ala Asp Leu Pro Tyr Gln Asn Tyr Phe Gly Gly Lys Leu Ser Ala			
80	85	90	
Gln Gly Lys Met Pro Trp Ile Glu Tyr Asn His Glu Lys Val Ser			
95	100	105	
Gly Thr Glu Phe Ile Ile Asp Phe Leu Glu Glu Lys Leu Gly Val			
110	115	120	
Asn Leu Asn Lys Asn Leu Gly Pro His Glu Arg Ala Ile Ser Arg			
125	130	135	
Ala Val Thr Lys Met Val Glu Glu His Phe Tyr Trp Thr Leu Ala			
140	145	150	
Tyr Cys Gln Trp Val Asp Asn Leu Asn Glu Thr Arg Lys Met Leu			
155	160	165	
Ser Leu Ser Gly Gly Pro Phe Ser Asn Leu Leu Arg Trp Val			
170	175	180	
Val Cys His Ile Thr Lys Gly Ile Val Lys Arg Glu Met His Gly			
185	190	195	
His Gly Ile Gly Arg Phe Ser Glu Glu Glu Ile Tyr Met Leu Met			
200	205	210	
Glu Lys Asp Met Arg Ser Leu Ala Gly Leu Leu Gly Asp Lys Lys			
215	220	225	
Tyr Ile Met Gly Pro Lys Leu Ser Thr Leu Asp Ala Thr Val Phe			
230	235	240	
Gly His Leu Ala Gln Ala Met Trp Thr Leu Pro Gly Thr Arg Pro			
245	250	255	
Glu Arg Leu Ile Lys Gly Glu Leu Ile Asn Leu Ala Met Tyr Cys			
260	265	270	
Glu Arg Ile Arg Arg Lys Phe Trp Pro Glu Trp His His Asp Asp			
275	280	285	
Asp Asn Thr Ile Tyr Glu Ser Glu Glu Ser Ser Glu Gly Ser Lys			
290	295	300	
Thr His Thr Pro Leu Leu Asp Phe Ser Phe Tyr Ser Arg Thr Glu			
305	310	315	
Thr Phe Glu Asp Glu Gly Ala Glu Asn Ser Phe Ser Arg Thr Pro			
320	325	330	
Asp Thr Asp Phe Thr Gly His Ser Leu Phe Asp Ser Asp Val Asp			
335	340	345	
Met Asp Asp Tyr Thr Asp His Glu Gln Cys Lys			
350	355		

<210> 29

<211> 1364

<212> DNA

<213> Homo sapiens

PF-0741 USN

<220>
<221> misc_feature
<223> Incyte ID No: 1681724CB1

<400> 29
gagagagccg ccgcgccgga gcctccttct ttcctgcctc tgattccggg ctgtcatggc 60
gacccccAAC aatctgaccc ccaccaactg cagctgggtgg cccatctccg cgctggagag 120
cgatgcggcc aagccagcgg aggccccgga cgctcccgag gcggccagcc cccatccattg 180
gcccaggag aacccatgttc tgtaccactg gacccagtcc ttcaagctcgc agaaggtgcg 240
gctggtgatc gccgagaagg gcctgggtgtg cgaggagcgg gacgtgagcc tgccacagag 300
cgagcacaag gagccctggt tcatgcggct caacctggc gaggaggtgc ccgtcatcat 360
ccaccgcgac aacatcatca gtgactatga ccagatcatt gactatgtgg agcgcacctt 420
cacaggagag cacgtgggtgg ccctgtatgcc cgaggtggc agcctgcagc acgcacgggt 480
gctgcagtagc cgggagctgc tggacgcact gcccatggat gcctacacgc atggctgcat 540
cctgcattcc gagctcacca ccgactccat gatccccaaag tacGCCacgg ccgagatccg 600
cagacatttcca gccaatgcca ccacggaccc catgaaactg gaccatgaag aggagcccc 660
gctctccgag ccctacacccc ctaaacaaaaa gaagctcatg gccaagatct tggagcatga 720
tgatgtgagc tacctgaaga agatcctcgg ggaactggcc atgggtctgg accagattga 780
ggcggagctg gagaagagga agctggagaa cgagggcag aaatgcgagc tggctgtctg 840
tggctgtgcc ttcaccctcg ctgatgtcct cctgggagcc accctgcacc gcctcaagtt 900
cctggactg tccaagaaat actgggaaga tggcagccgg cccaaacctgc agtccttctt 960
tgagaggggtc cagagacgct ttgccttccg gaaagtccctg ggtgacatcc acaccaccct 1020
gctgtcgccc gtcatccccaa atgctttccg gctggtaag aggaaacccc catccttctt 1080
ccccggcgtcc ttccatgg gctccctggg tggatggc tactttgcct actggtaacct 1140
caagaaaaaaaaa tacatcttagg gccaggcctg gggcttggtg tctgactgtc ggtgtctctg 1200
tgctgtgtga ttccccgtga gctctcagta actcactgtc tcatgaacac ttggacagcc 1260
ctccccgccc ttcgttctga gtaataatac cgtcagtgaaaacattcc gtagtttaga 1320
agtagacgtt gccaatgctg tgactcaagg ccagggttca atta 1364

<210> 30
<211> 505
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1718047CB1

<400> 30
cggtcgagg agagattcac gcaccctcaa gagtgtgggt gagacatata cagcctgtta 60
gacctgaagg cagatggctc ttcttaaggc caataaggat ctcatttccg caggattgaa 120
ggagttcagc gttctgtga atcagcaggt cttaatgat cctctcgct ctgaagaaga 180
catggtgact gtggggagg actggatgaa ctctacatc aactattaca ggcagcaggt 240
gacaggggag ccccaagagc gagacaaggc tctgcaggag ctccggcaag agctgaacac 300
tctggccaaac ctttcctgg ccaagtacag ggacttcctg aagtctcatg agctcccgag 360
tcacccaccc cccctctcct agctcagggc cccagcccc cctctctgag aaactctgac 420
cttcatgtcc ttaggtgtg ctccgtccac tctaccctga cacctcaata aagaccagtg 480
ctggttttgt tggaaaaaaaaaaaaa 505

<210> 31
<211> 926
<212> DNA
<213> Homo sapiens

PF-0741 USN

<220>
<221> misc_feature
<223> Incyte ID No: 1980323CB1

<400> 31
gtccggggtc gtgagccggc cccgccttgg tggccggcgcc ccctcgccgt ccagagggcag 60
acgcacatcgaaa tgggctcgaaa tctccagcccc ggccggggagg agggaccggg tctgcggagc 120
ggggactcgg ggcctcgccg gggcgccgac acgcaggccg ggcggccccc ggtgcggggc 180
ctctgcggcgg ctgaccaggc tcccagagcg tcacgcggcc catggccgag ccgctccagc 240
cagacccccc ggccggccgag gacgcggccg cccaaagctgt ggagacgccc ggctggaagg 300
ccccggagga cgccggcccc cagcccgaa gttatgagat ccgacactat ggaccagcca 360
agtgggtca gacgtccgtg gagtctatgg actgggattc agccatccag acgggcttta 420
cgaaaactgaa cagctacatt caaggcaaaa acgagaaaaga gatgaaaata aagatgacag 480
ctccagtgac aagctacgtg gagcctggtt caggtccctt tagtgagtct accattacca 540
tttccctgtt tattccctt gaacagcaat ttgatccacc caggccttta gagtcagatg 600
tcttcattga agatagagcc gaaatgactg tggttgcgt gtctttcgat ggattttcta 660
gtgcccaaaa gaatcaagaa caactttga cattagcaag cattttaaagg gaagatggaa 720
aagtttca tgagaagggtt tactacactg caggctacaa cagtcctgtc aaattgctt 780
atagaaataa tgaagtgtgg ttgattcaaa aaaatgaacc caccaaagaa aacgaatgag 840
aaaaatgaaa ggaagttctg ctgtcagagg caaaacatct gtttatcata gacatcaaca 900
tgacctataa gtaaaaaaaaaaaaa 926

<210> 32
<211> 1364
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1990956CB1

<400> 32
gacaacagcc ccacgtgacc ggccaaacact gagtgttgc tcgctctggc gtcagagccg 60
tcgtggctcg ttccattctc ggcgggtgta cctgctcccg gtggccctga ggacgtgtgg 120
gccaggggcg gccccgaaat taggaagccg agggggagca gtctgcaggt ctgcggggct 180
aagtgtcgcg gcggcgcacc tcgcgtcaag aatccggagg aggagactgc aaggataggc 240
ccaggagtaa tggagtccaa agaggaacta gcgccaaaca atctcaacgg ggaaaatgcc 300
caacaagaaa acgaaggagg ggagcaggcc cccacgcaga atgaagaaga atcccgccat 360
ttgggagggg gtgaaggcca gaaggctgga gggaaatatca ggcggggcg agttaggcga 420
cttgccttta atttcgatg ggcataacct aataggcata ttgagcacaa tgaagcgaga 480
gatgatgttag aaaggttgtt agggcagatg atgaaatca agagaaagac tagggAACAG 540
cagatgaggc actatatgcg cttccaaact cctgaacctg acaaccatta tgactttgc 600
ctcatacctt gaattctaaa agtttcgct gaggttaatg tgaacactgc ttacaagct 660
tgtatTTTG tgatttactt tttctgttaag cttttgggtg tttacactta ccagttctta 720
atggaaattha gaattctaat tgaatattgt tttgtctcag cctaaaagtt acggtcagca 780
tggcaattca cctatTTTGA gaaaaataact ctttcataa tatgaardgc ataaaggcgt 840
tcaaaaagca gtctgtattc catcatctt cttttcatt ccagtcctta ttttggtaag 900
tattactttt cctcctccgg ctacctggac tcaaaaatctc agttgtcttt gacagttttt 960
ttcttgccc tgaccaaaaa agaatgtca tacccagaat tcaatgtttg atatTTTAAG 1020
aatgtatgtt ctagtgtttt tcagagttag tctaccatct gtataaaaaac accttggggg 1080
caggcagggg cattaaaaaa tgttaggacct atcgccaga ctcacagagt gggctccag 1140
aatctccatt ttacaacaaac tctcttaagt aattctgtatg tgtaccaaaaa tcagtgccat 1200
tggtgtgtgt gtacgtaact atatacatat gtgtgtgtgt gtatataat aatgtgtcat 1260
aaccgttaaac aataaacaat atcaagataa atctgacttt gatggcaag taattaaaaa 1320

PF-0741 USN

agaaaaagtat gagaccttaa aaaaaaaaaa aaaaaaaaaa aaaa 1364
<210> 33
<211> 464
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2009069CB1

<400> 33
gagcaggaat tcggcacgag gaattcagta tggcaaagggt gaccagttag ccacagaagc 60
ctaatgaaga tgtggacgaa cacaccccat caacctaag taccaaagggt aggaagaagg 120
ggaagacacc cctgtcaacga aggtccagaa gcggcgtaa gggcctaaag accaccagga 180
aggcgaaaag acccccttcga gggagctcga gccaaaaagc cggtgaaact aacacccctg 240
caggaaaacc taagaaagct agaggaccaa tactgcgtgg tcgttatcac cggtgaaag 300
aaaaaatgaa gaaagaagag gccgacaaag agcaaagcga gacctcagtt ctgtgatgtc 360
tctagaggtc cgccactgaa aagtcatcaa tcatacagtc agtgaattct acaccaacag 420
gttaaaacca tgaaaataaaa atcaacctga atcgaaaaaaa aaaa 464

<210> 34
<211> 1549
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2009435CB1

<400> 34
ttccctgggt cgaccacgc gtccgggaag acagtttgc ttcttgcac attaaaccaa 60
agggacttgg agtgcagatg gcatccttcg gttcttccag acaagctgca agacgctgac 120
catggccaag atggagctct cgaaggccct ctctggccag cggacactcc tatctgccat 180
cctcagcatg ctatcactca gttctccac aacatccctg ctcagcaact actggtttg 240
gggcacacag aaggtgccc agccctgtg cgagaaagggt ctggcagcca agtgctttga 300
catgccagtg tccctggatg gagataccaa cacatccacc caggagggtgg tacaatacaa 360
ctgggagact ggggatgacc gttctccct ccggagcttc cggagtggca tggctatc 420
ctgtgaggaa actgtggaag aaccagcact gtcctatccc cagtccttga aacaatttag 480
agcccttcgg tccagtggta cagcggcagc aaaaggggag aggtgccgaa gtttatttga 540
acttacacca ccagccaaga gaggtgagaa aggactactg gaatttgcac ctttgcac 600
cccatgtcac cccactctcc gatttggagg gaagcggtt atggagaagg cttccctccc 660
ctccccctccc ttggggctt gtggcaaaaa tcctatggtt atccctggga acgcagatca 720
cctacatcgg acttcaattc atcagcttcc tcctgctact aacagacttgc ctactcaact 780
ggaaccctgc ctgtgggctc aaactgagcg ctttgcgtc tggcttctt gtcctgtc 840
gtctcctggg gatggtgcc cacatgtgt attcacaagt cttccaagcg actgtcaact 900
tgggtccaga agactggaga ccacatgtt ggaattatgg ctgggccttc tacatggc 960
ggctctcctt cacctgctgc atggcgtcgg ctgtcaccac cttcaacacg tacaccagga 1020
tggtgctgga gttcaagtgc aagcatagta agagcttcaaa ggaaaaacccg aactgcctac 1080
cacatcacca tcagtgttc cctcggcggc tgtcaagtgc agccccccacc gtgggtcctt 1140
tgaccagcta ccaccagtt cataatcagc ccatccactc tgtctctgag ggagtcgact 1200
tctactccga gctgcggAAC aaggatttc aaagaggggc cagccaggag ctgaaagaag 1260
cagtttaggtc atctgttagag gaagagcagt gtttaggatg aagcgggttt gggagtagg 1320
cttgagccct accttacacg tctgctgatt atcaacatgt gcttaagcca aaaagctctg 1380

PF-0741 USN

gagctatttc cagatcaa at agttttcta aaactttctg tccttctta ctgggggcct 1440
gtcagcatca ctgatgaata tttcttgc ca cagaggttt tcttggtttt cccggattcc 1500
tttggatgt gatcaacttt aaaatatcct gggtgactcc ggttcacca 1549

<210> 35
<211> 1205
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2027937CB1

<400> 35
cttggtag tcttggaa gatcaggc tgcaa atc ac cctaggatgt cttcagtga 60
gcagcagtgc aagcagccat gtgtcccccc tccatgcctc ccaaagaccc aggagcagtg 120
ccaagcaaag gctgaggagg tgcctccc cacatgccag caccctgcc aagataagtg 180
tctagtgcag gcccaggagg tatgtcttc tcagtgccag gaatcaagtc aagaaaaatg 240
cccacagcaa ggc当地 ggc当地 cccatccacc tccatgccaa gaccagtgcc cacctcagtg 300
tgcagagcca tgccaggagc tattccagac aaaatgtgt gaggtttgc cacagaaatg 360
tcaggagaag tgctcatccc ctggcaaggg aaagtagctg ctcatatgtc atctgggttc 420
aagaagatgg ccagcagatg aaaccctgac cccagccac gctctggta ctttcttctg 480
tgggtaccc tgc当地 gtc当地 ttcccttgc ttcccttagca ttccaggact 540
tggctgtgt ctctgaagac agttcttct gtatccatc accctctgtg aataagcatt 600
gttctcagca gtctgatgga aggtctcaaa tgttaggaatg gtgtgggtgt cagggaaagac 660
cacagaagcc tagcacagct tcctggc当地 aaaaattcac ccagctctgg gtgtgtaca 720
gccaaggata cttcattca tcttcagag ttccaggctc tcaaataagc ct当地 780
actgaattct gatggacttt ccacttatca ccaccaccac cacccccc accaccacca 840
ccacagggtg tgagacaaag cggcttgc当地 tgttcaaaa atcaaaaatt tggtgatttt 900
gtctctgtac actaaaaaaga acagcaaattt attgaacttt gaaatgtgg ttgtgtttt 960
ttaaaaatgaa cc当地 aggtat gt当地 acgattt gaatccaaac aaccagaagg gaaagataag 1020
atggatgtt ggtcccttgc tcaatctctg tgcttcatag ctggtcta at gtggccctt 1080
agttctcacc atgtacactc tttagagatg tgatttgc当地 ctgtgtatg caggctggc 1140
tgttctccag ctcccttgc当地 ttcttctccc tggtgaaggt aaaatacata ataaagctga 1200
tcctg 1205

<210> 36
<211> 4061
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2722347CB1

<400> 36
ccggcgccgg gccc当地 caggc ccctccctg gaccccccgc agagccagt 60
cagaatacag aaactgc当地 catgaccacg cacgtcacc tggaaatgtc cctgtccaaac 120
gtggacctgc ttgaagagct tccctccccc gaccaggc当地 catgc当地 gctccac 180
tcctccatca tgc当地 caggc当地 taactttgac acaaaactttg aggacaggaa tgc当地 ttgtc 240
acgggcattg caaggatcat tgaggcaggct acagtccact ccagcatgaa tgagatgtg 300
gaggaaggac atgaggatgc ggtcatgt tacacctggc gc当地 ctgttc cccggccatt 360
ccccagggtg aatgcaacga gc当地 ccaac cgaggtagaga tctatgagaa gacaggtagag 420
gtgctggagc cggaggc当地 acgctcatg aagttcatgt atttcagcg caaggccatc 480

gagcggttct gcagcgaggt gaagcggctg tgccatgccg agcgcaggaa ggactttgtc 540
 tctgaggcct acctcctgac cttggcaag ttcatcaaca tgtttgctgt cctggatgag 600
 ctaaagaaca tgaagtgcag cgtcaagaat gaccactctg cctacaagag ggcagcacag 660
 ttcctgcgga agatggcaga tccccagatct atccaggagt cgcagaacct ttccatgttc 720
 ctggccaacc acaacaggat cacccagatgt ctccaccagc aacttgaagt gatcccaggc 780
 tatgaggagc tgctggctga cattgtcaac atctgtgtgg attactacga gaacaagatg 840
 tacctgactc ccagtggagaa acatatgctc ctcaaggtga tgggcttgg cctctaccta 900
 atggatggaa atgttagtta catttacaaa ctggatgcca agaagagaat taatcttagc 960
 aaaattgata aattctttaa gcagctgcag gtggtgcggc ttttcggcga catgcagata 1020
 gagctggcca gatacattaa gaccagtgt cactatgaag agaacaagtc caagtggacg 1080
 tgcacccaga gcagcatcag cccccagatc aatatctgcg agcagatgtt tcagatccgg 1140
 gatgaccaca tccgcctcat ctccgagctc gctcgctaca gcaacagtga ggtggtgacg 1200
 ggctcaggggc tggacagcca gaagttagac gaggagtatc gcgagctt cgcacccagc 1260
 ctgcggggtc tgcaagttct atccaagttgg agcgcacccacg tcatggaggt gtactcttgg 1320
 aagctggttc atccccacaga caagttctgc aacaaggact gtcctggcac cgccggaggaa 1380
 tatgagagag ccacacgcta caattacacc agtgaggaaa aatttgcctt cgttgaggtg 1440
 atcgccatga tcaaaggcct gcaggtgtc atgggcagga tggagagcgt cttcaaccag 1500
 gccatcagga acaccatcta cgcggcattt caggacttcg cccaggtgac gctgcgtgag 1560
 cccctgcggc aggcggtacg gaagaagaag aatgtcctca tcagcgtcct acaggcaatt 1620
 cggaaagacca tctgtgactg ggagggaggg cgagagcccc ctaatgaccc atgcttgaga 1680
 ggggagaagg accccaaagg tggatttgc atcaaggtgc cccggcgtgc tgtggggcca 1740
 tccagcacac agctgtacat ggtgcggacc atgcttgc atactcattgc agacaaaagc 1800
 ggctccaaga agaccctgag gagcagcctg gatggaccctt ttgtcctcgc catagaggac 1860
 tttcacaaac agtccttctt cttcacacat ctgctcaaca tcagtgaagc cctgcagcag 1920
 ttttgtgacc tctccagatc ctgggtccga gaatttgcctt tggagtttacatc catggggccga 1980
 cgaatccagt tccccatcga gatgtccatg ccctggattt taacggacca tatcctggaa 2040
 accaaagaac cttccatgat ggagttatgtc ctctaccctc tggatctgtca caacgacagc 2100
 gcctactatg ctctgaccaa gttaaaaaag cagttctgt acgatgagat agaagctgag 2160
 gtgaacctgt gttttgatca gttttgtctac aagctggcag accagatctt tgcttactac 2220
 aaagccatgg ctggcagttt cctgttggat aaacgttttcc gagctgagtg taagaatttat 2280
 ggcgtcatca ttccgtatcc accgtccaaat cgctatgaaa cactgctgaa gcagagacac 2340
 gtccagctgt tgggttagatc aatttgactt aacagactca ttacccagcg catctctgcc 2400
 gccatgtata aatccttgaa ccaagctatc agccgcttgc agagtggacca cctgacctcc 2460
 attgtggagc tggagttggct gctggagatt aaccggctca cgcacccggct gctctgtaaag 2520
 catatgacgc tggacagctt cgtatccatg ttccgagagg ccaatcacaat tggatccgc 2580
 ccctatggcc gtatcaccct gcatgtcttc tgggaacttga actttgcatt tctcccaac 2640
 tactgctaca atgggtccac taaccgtttt gtgcggactt ccattccctt caccctaaagaa 2700
 ccacaacgag acaaaacccatc caacgtccag ccttattacc tctatggatc caagcctctc 2760
 aacattgcct acagccacat ctacagctcc tacaggaatt tcgtggggcc acctcatttc 2820
 aagactatct gcagacttcc gggttatcag ggcacatcgatc tggatcgatc ggaactgtca 2880
 aagattgtga agagcttgc ccaagggacc attctccatg atgtgaaaac actgatagag 2940
 gtgatgccc agatatgccc cttggcccg catgagttatc gctcccccagg gatcctggag 3000
 ttcttccacc accagctgaa ggacatcatt gagttacgcag agctcaaaaac agacgtgttc 3060
 cagaggctga gggaaatgggg caatggccatc ctcttctgtcc tcctcataga gcaagctctg 3120
 tctcaggagg aggtctgcga tttgtccat gcccacccct tccaaaacat cttgcctaga 3180
 gtctacatca aagagggggc ggcacccggatgaa aacgtctggatc agccaagttat 3240
 gccccgctcc acctgggtccc tctgtatcgatc cggctggggc cccctcagca aatcgccatt 3300
 gtcgcgagg gtgacccctt gaccaaggag cggctgtgtc gtggcctgtc catgttccag 3360
 gtcatccatc cccgcatttc gagcttccatc caggacccca tctggccgggg cccaccgccc 3420
 accaatggcg tcatgcacgt cgtatgatgtt gtcggatgtcc accggctgtc gagcgccatg 3480
 cagttcgtgt actgcaccc tggatggaaacc aacgagttca cagctgagca gtgtttccggc 3540
 gatggcttgc actgggctgg ttgtccatc attgtcctgc tgggcccacca gctgcgttcc 3600
 gacctgttcg actttctgtta ccacccatc aaagtgcaga ggcaggacgg gaaggatgaa 3660
 atcattaaga atgtgcccctt gaagaagatg gccgaccggc tcaggaagta tcagatcttgc 3720

PF-0741 USN

aacaatgagg ttttgccat cctgaacaaa tacatgaagt ccgtggagac agacagttcc 3780
actgtggagc atgtgcgtg cttccagcca cccatccacc agtccttgc caccacttg 3840
taagcagaag atcctgcaga cccttatctg gaggaggaag agaagcagga gagagaaagc 3900
cacagccagc ctgccatagg atccaactgg acaacgtgtg ggatggacct ggaaacaagc 3960
acctccccaa acacatcacc actccctagg gcggggcctg tgcatgctct cccatgacat 4020
ctccatgctg gtttctccat agcataaatg aaaaaaaaaa a 4061

<210> 37

<211> 773

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2759876CB1

<400> 37

gcagttctcc tgcctcagcc tcctgagtag ctgggattac agacaaaaat actaatgcat 60
ttgagaaagc ggtagtttg gttggagggg gaaaaatcaa ctgcttcct gatctgcaac 120
ttggctggat gctaagatgt cagtggacat gaatagccag gggctctgaca gcaatgaaga 180
ggactatgac ccaaattgtg aggaagagga agaagaagaa gaagacgacc ctggggacat 240
agaggactat tacgtggag tagccagcga tgtggagcag cagggggctg atgccttga 300
tcccggagg taccagttca cttgcttgc ctacaaggaa tctgaggggtg ccctcaatga 360
gcacatgacc agcttagctt ctgtcctaaa ggtgagcagt gttgtaaact ccagtgtaat 420
cccccccagt taaatctaag gatgagctgt tgtaattaa tgcctccctc agactaattg 480
aatggcctt tagttgaaa ccaaattaa gtgtatgtca acatcatttgc gacattttgt 540
tacatttact ttgtttcta atatatgcat gtctaaggc ctcagattcc caaatttagta 600
agaattagaa agtaggggtg ggacagattc aagaaagatg taccatacca gaaatgtgt 660
gtagcagaat tgcacaactt tgcacgttc aggaagttag tttcagaat tttatgaggt 720
tgataacaata agcatcagaa tcaccatctt ctgtacgact gtgagtgact gat 773

<210> 38

<211> 2116

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2763735CB1

<400> 38

ctcgattgg tctactgtgg gtctggactg atctccatgt cctgttgtgg ggctttaca 60
gccttggat tgtaaaaact gctgagagag acttgcaatc cagtcacata agtataataa 120
agaaatattg gtcctcatgg aagaagagca agatttacca gagcaaccag tgaaaaaaagc 180
caagatgcag gaatcaggag agcaaactat aagtcaagta agcaatccag atgtcagtga 240
tcagaaggct gaaacatcaa gcctgcttc aaaccttccc atgtcagagg aaattatgac 300
atgcaccgat tacatccctc gctcatccaa tgattatacc tcacaaatgt attctgcaaa 360
accttatgca catattctct cagttcctgt ttccggaaact gcttaccctg gacagactca 420
ataccagaca ctacagcaga ctcaacccta tgctgtctac cctcaggcaa cccaaacgta 480
tggactacct ccttttgctt caagcacaaa tgccagcctg atatctactt cttctacaat 540
tgccaatatt ccagcagcag cagtagccag catctcaaac caggattatc ccacctatac 600
tattcttggc cagaatcagt accaggcctg ctaccccagc tccagtttg gagtacagg 660
tcagactaac agtcatgcag agagcaccac attagcagca accacatacc agtcggagaa 720
gccttagtgc atggcgcctg cacctgcagc acagagactt tcctctggag acccttctac 780

PF-0741 USN

aagtccatct ttgtcccaga ctacaccaag taaagatact gatgatcagt ccagaaaaaa 840
catgactagc aagaaccggg gcaagaggaa agctgatgcc acttcttccc aagacagtga 900
attagaacgg gtatttctgt gggacttgga taaaaccatc atcatcttcc actcacttct 960
tactggatcc tatgcccaga aatatggaaa ggacccaaca gtagtgattt gctcagggttt 1020
aacaatggaa gaaatgattt ttgaagtggc tgatactcat ctattttca atgacttaga 1080
ggagtgtgac caggcacatg tggaagatgt ggcttctgt gacaatggcc aagacttgag 1140
caactacagt ttctcaacag atggtttcag tggctcagga ggttgtggca gccatggttc 1200
atctgtgggt gttcaggggag gtgtggactg gatgaggaaa ctagcttcc gctaccggaa 1260
agtgagagaa atctatgata agcataaaaag caacgtgggt ggtctctca gtccccagag 1320
gaaggaagca ctgcagagat taagagcaga aattgaagtt ttaacagatt cctggtagg 1380
aactgcatta aagtccctac ttctcatcca gtccagaaaag aattgtgtga atgttctgat 1440
caactaccacc cagctgggtc cagccctggc caaggttctc ctagatggac taggagaaaat 1500
atttcctatt gagaacatct atagtgcac caaaaattgggt aaggagagct gctttgagag 1560
aattgtgtca aggtttggaa agaaagtac acatgttagt attggagatg gacgagatgc 1620
agccaaacacag cacaacatgc ctttctggag gatcacaaac catggagacc tagtatccct 1680
tcaccaggtt ttagagctt attttctcta agaactggaa tgaggagcct tccccttgag 1740
ctcctttca ctccctgaagg gagctggaga ctggAACAA ctgagaactt tctctgtctg 1800
tctctctctg tgtctctgtc tctatcttc tctctttctc tctctcttc tctccctctc 1860
tccctccctc ctttctctc tccctccctc tctgcctctc tctctcttc tctctctgtc 1920
tttatccatg gaatgtggc gagaacacaa tcagaaccaa cagctgcaat ttttgctaag 1980
agtgagctgc agccccgtgt tcatctccat acagaaggcag ggacagttgg atagagagaa 2040
caatggactc actgcagcta cagtgccttt aattttctg tgttttgttt ttgtttttt 2100
gttttcaaaa aaaaaaa 2116

<210> 39

<211> 2556

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2848676CB1

<400> 39

cgagaagtcc aggggtggcc gtatggcg cgccaggagc aggacctggc caggaagcgg 60
gtgccggggcc tggcccagga gcggtcgaa atgcaacagg ggcagaagag ggggagatga 120
agccgggtggc agcgggagca gcccgtctc ctggagaggg gatctctgct gctccgacag 180
ttgagcccaag ttccggggag gctgaaggcg gggaggcaaa cttggtcgt gtaagcggtg 240
gcttgagac agaatcatct aatggaaaag atacactaga aggtgctggg gatacatcag 300
aggtgatgga tactcaggcg ggctccgtgg atgaagagaa tggccgacag ttgggtgagg 360
tagagctgca atgtgggatt tgtacaaaat ggttcacggc tgacacattt ggcatacgata 420
cctcatcctg tctaccttc atgaccaact acagtttca ttgcaacgtc tgccatcaca 480
gtggaaatac ctatccctc cggaagcaag caaacttggaa ggaaatgtgc ctttagtgctt 540
tggcaacacct gacatggcag tcccgaacac aggatgaaca tccgaagaca atgttctcca 600
aagataagga tattatacca tttattgata aatactggga gtgcacatgaca accagacaga 660
gacctggaa aatgacttgg ccaaataaca ttgttaaaac aatgagtaaa gaaagagatg 720
tattcttggt aaaggaacac ccagatccag gcagtaaaga tccagaagaa gattaccca 780
aatttggact tttggatcag gaccttagta acattggtcc tgcttatgac aaccaaaaac 840
agagcagtgc tgtgtctact agtggaaatt taaatgggg aattgcacgca ggaagcagcg 900
gaaaaggacg aggagccaag cgcaaacacgc aggatggagg gaccacaggg accaccaaga 960
aggccccggag tgaccctttg ttttctgtctc agcccttcc ccctcatggc taccattgg 1020
aacacccgtt taacaaagat ggctatcggt atattctagc tgacgcgtat ccgcacgccc 1080
ctgaccccgaa gaagctggaa cttgactgct gggcaggaaa acctattcct ggagacact 1140
acagagcctg cttgtatgaa cgggtttgt tagccctaca tgatcgagct ccccgatcaa 1200

PF-0741 USN

agatctcaga tgaccggctg actgtggttg gagagaaggg ctactctatg gtgaggccct 1260
ctcatggagt acggaagggt gcctggatt ttgaaatcac tgtggatgag atgccaccag 1320
ataccgctgc cagactgggt tggcccagc cccttaggaaa ccttcaagct cctttaggtt 1380
atgataaatt tagctattct tggcggagca aaaagggAAC caagttccac cagtccattg 1440
gcaaacacta ctcttcggc tatggacagg gagacgtcct gggattttat attaatctc 1500
ctgaagacac agagacagcc aagtcatgc cagacacata caaagataag gcttgataa 1560
aattcaagag ttatTTGAT tttgagggaaa aagactttgt ggataaagca gagaagagcc 1620
tgaaggcagac tccccatagt gagataatat ttataaaaaa tggtgtcaat caaggtgtgg 1680
cttacaaaga tattttgag ggggttact tcccgccat ctcactgtac aagagctgca 1740
cggttccat taactttgga ccatgctca agtacccctc gaaggatctc acttaccgccc 1800
ctatgagtga catgggctgg ggcgcgtgg tagagcacac cctggctgac gtcttgatc 1860
acgtggagac agaagtggat gggaggcgcA gtccccatg ggaacctga ccaggtccct 1920
cttttctgtc aaggacttc tggaaataat actgggggtt ttgttttgc tttgaactg 1980
tctcaaatgt tctcccaaag atgctaaaaa cacagccctc ccttttagca agttaaaagg 2040
ctgggttagga ctggggaga ctgcctgcct ttaccattt tctcccaact tcagtgact 2100
gctcttattt tggtaaccat aagccaacaa ccgctgactc caggattgca taagccccct 2160
gtgaaatcgG tgctgtactg cataccctgc cagctgtgac ttgttatcct actatatttt 2220
ctaaggagtg aataatattt tccgagtaac taacttattt aaaagacatt tccttctgtg 2280
ggcattgact gtatcccacc tggggccaa ggaatggta acctgtttct gagaacaccc 2340
gaaatcaatg gctatacatt ccaaaccaat ctaaacgcta ttccctttg gtgtgggtt 2400
ggtttggtc atttggaaat acactttga acactgagat ccgtaaaact actagatctc 2460
tggaaatgtg atttggaaag aaacttgctt gcagctttaa caaaatgaga aacttcccaa 2520
ataaaaacttG ttttgaagtt taaaaaaaaa aaaaaa 2556

<210> 40

<211> 1394

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2956153CB1

<400> 40

gcccagacga attcccttgc ggccgctgca gccctggcag gcgcacaccc ctaagcatac 60
gcacccaacg ctcctccct gagccacagag gatggagcag ccacccccc ccgggactgg 120
cgcaaggtgc ccaagcaagg aaagaaataa tgaagagaca catgtgttag ctgcagcctt 180
ttgaaacacg caagaaggaa atcaatagt tggacaggc tggAACCTT accacgctt 240
ttggagtaga tgaggaatgg gctcgtgatt atgctgacat tccagcatga atctggtaga 300
cctgtggta acccgcccc tctccatgtg tctccctcta caaagttttgc ttcttatgat 360
actgtgtttt cattgtCCA gtatgtgtcc caagggtgtt ctgttttctt cctctgggg 420
tttaaatgtc acctgttagca atgcaaatct caagggaaata cctagagatc ttccctcctg 480
aacagtctta ctgtatctgg actccaatca gatCACATCT attcccaatg aaatttttaa 540
ggacctccat caactgagag ttctcaaccc tgcgggggg ggcattgagt ttatcgatga 600
gcatgccttc aaagggtgt tagtggacccctt gcaactctg gacttgcgg acaatcggt 660
tcaaagtgtg cacaAAAATG ccttcaataa cctgaaggcc agggccagaa ttgccaacaa 720
cccctggcac tgcgactgtt ctctacagca agttctgagg agcatggcgt ccaatcatga 780
gacagccccac aacgtgtatct gtaaaacgtc cgtgttggat gaacatgtg gcagaccatt 840
cctcaatgtt gccaacgacg ctgacctttg taacccctt aaaaaaaaaacta ccgattatgc 900
catgtgtggc accatgttttgc tgggttccat tatgggtatc tcataatgtgg tatattatgt 960
gaggcaaaat caggaggatg cccggagaca cctcgaatac ttgaaatccc tgccaagcag 1020
gcagaagaaa gcagatgaac ctgatgtat tagcactgtg gtatagtgtc caaactgact 1080
gtcattgaga aagaaagaaa gtagttgcg attgcagtag aaataagtgg ttacttctc 1140
ccatccatttG taaacatttG aaactttgtt tttcagtttG ttttgaattt tgccactgt 1200

PF-0741 USN

gaactttaa caaacactac aacataaata atttgagttt aggtgatcca ccccttaatt 1260
gtaccccgta tggtatatattt ctgagtaagc tactatctga acatttagtta gatccatctc 1320
actatttaat aatgaaaattt attttttaa tttaaaagca aataaaagct taactttgaa 1380
ccatgaaaaa aaaa 1394

<210> 41
<211> 1376
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3333139CB1

<400> 41
gtcgcaggcc ggagggaga tggcggcgcc ctggtggcga gccgcgtgt gcgagtgtcg 60
gagatggcg ggcttcagca cctcggccgt cctggccgc cgacaccccc cgctggggcc 120
gatgcccac agtacatcg acttgagcaa cctggagcgg ctggagaagt accggagctt 180
cgaccgctac cggcccccggg cagagcagga ggcgcaggcc ccgcacttgtt ggccggaccta 240
ccgagagtat ttccgggaga agacagatcc caaagagaag attgatattt ggctgcctcc 300
acccaaatgc tcccgaccc aacagctact ggaacggaaa caggccatcc aggagcttcg 360
ggccaatgtg gaagaggagc gggctgccc cctccgcaca gccagtgtcc cgctggatgc 420
cgtgcgggccc gagttggaga ggacctgtgg cccctaccac aacgcgcgtc tggctgagta 480
ttacggcctc taccgagacc tttccacgg tgccacctt gtgcggccag tccccctgca 540
cgtggcctac gctgtgggtg agatgacct gatgcctgt tactgtggca atgaggtgac 600
tccaaccgag gctgcccag cgccagaggt gacctatgag gcagaagagg gctccttgt 660
gacgttgcta ctcactagct tggatggca cctgctggag ccagatgtc agtacccca 720
ctggctgcta accaacatcc cgggtAACCG ggtggctgaa ggacagggtga cgtgtcccta 780
cctccccccc ttccctgccc gaggctccgg catccaccgt cttgccttcc tgctcttcaa 840
gcaggaccag ccgattgact tctctgagga cgacgcccc tcaccctgtc atagctggc 900
ccagcggacc ttccgcactt ttgatttcta caagaaacac caagaaacca tgactccagc 960
cggttgtcc ttctccagt gccgctggg tgactccgtc acctacatct tccaccagct 1020
tctggacatg cgggagccgg ttttgagtt cgtgcggccg ccccttacc accccaagca 1080
gaagcgctc ccccacccggc agccctgctg ctacctggac cggtaacaggg acagtcatga 1140
gcccacctat ggcacatct aaggagccag agtgtgcga ttccagagca tggatttat 1200
cggcagcaag agtaaagaca cagctccaga gcccacact gtggggctcg gcccctgcct 1260
taggcagccc ccctttgg cccctcccg tcaggcccag ggcttgagttt gaaagtgact 1320
ctcaggttgtt ggggtggggaa atgtgaataa acatgatttc ttggccggaa aaaaaa 1376

<210> 42
<211> 526
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3432292CB1

<400> 42
caggacgtgt ctgtgctcct gtgtgtgacc agggttgaaa aagtcgcact gagatgtcct 60
gccagcaaaa ccagcagcag tgccagcccc ctcccaagtg ccccccacccaa tgcccacccca 120
agtgtccccc aaagtgcga cctcagtgcc cagccccatg cccacccca gtctttccct 180
gctgtgggtcc cagctctggg ggctgctgcg gctccagctc tggggctgc tgcaagctcg 240
gggggtggccgg ctgctgcctg agccaccaca gccccgtct cttccaccgg caccggcacc 300

PF-0741 USN

agagccccga ttgttgtgag tctgaacttc tgggggctct ggctgctgc acagctctgg 360
ggactgctgc tgaccaaacc tcgaacatca cagagcaagc ctatggag aaaacttgca 420
aacgaggaac ctgtcccaa gagtatgc ttcttctga cccctgttg ttccttatac 480
ccctggggc tcgacaacac ctttgtgag agtgttttgc 526

<210> 43

<211> 2431

<212> DNA

<213> Homo sapiens

*

<220>

<221> misc_feature

<223> Incyte ID No: 3478571CB1

<400> 43

ccctgctccc ggaggagacg cgctgccag gagaacccag cgggagaaca tttcaggata 60
gaaataggcc aagtgtgag aagatgagtc ttaggattga tgtggataca aactttctg 120
agtgttgtt agatgcagga aaagtcaccc ttggactca gcagaggcag gagatggacc 180
ctcgctcgc ggagaaacag aatgaaatca tcctgcagc agtatgtgct ctgctgaatt 240
ctgggtgggg cataatcaag gctgagattt agaacaagg ctacaattat gaacgtcatg 300
gagtaggatt ggatgtgcct ccaatttca gaagccattt agataagatg cagaaggaaa 360
accactttt gattttgtt aaatcatgga acacagaggc tggtgtgcca ctgctacact 420
tatgctccaa tttgtaccac agagagagaa catccaccga tgcattggat tctcaggaag 480
ctctggcatt cctcaaatgc aggactcaga ctccaacgaa tattaatgtt tccaattcat 540
taggtccaca ggcagctcag ggtatgtac aatatgaagg taacataaat gtgcagctg 600
ctgctttatt tgatagaaag cggcttcagt atctggaaaa actcaacctt cctgagtc 660
cacatgttga attttaatg ttctcgacag acgtgtcaca ctgtgtaaa gacagacttc 720
cgaagtgtgt ttctgcattt gcaaatactg aaggaggata tgcattttt ggtgtcatg 780
atgagacttgc tcaagtgttggatgtgaaa aagagaaaat agaccttacg agcttgagg 840
cttctatttttga tggctgtatt aagaagctac ctgtccatca tttctgcaca cagaggcctg 900
agataaaaata tgccttaac ttccttgaag tgcattgataa gggggccctc cgtggatatg 960
tctgtcaat caaggtggag aaattctgtt gtgcgggtt tgccaaatgt cctagttcct 1020
ggcaggtgaa ggacaaaccgt gtgagacaat tgcccacaag agaatggact gttggatga 1080
tggaaatgttgc cccagacctt tccaggtgtc ctgagatggt tctccagttt agtttgcatt 1140
ctgccacgcc ccgcagcaag cctgtgtca ttcatagaa ttgcgaatgt ctgaaagagc 1200
agcagaaacg ctactttca gtatcccgtt acagatgtgtt atatactcca gaaagcctct 1260
acaaggaact ctctcacaa cataaaggac tcagagactt aataaataca gaaatgcgcc 1320
ctttctctca aggaatatttgc atttttctc aaagctggc tggatttta ggtctgcaag 1380
agaagcagg agtcatctgt gatgtcttc taatcccgtt gacaacacc cctattctct 1440
acaccatctt cagcaagtgg gatgcgggtt gcaaggccta ttctatgata gttgcctatt 1500
ctttaagca gaagctggg aacaaaggcg gctacactgg gaggttatgc atcaccctt 1560
tggctgtgt gctgaatttgc gatagaaaaac cacagacgtt ttacagttcg tatttacaaa 1620
tttaccctga atccataac ttcatgaccc cccagcacat ggaagccctg ttacagtccc 1680
tcgtgatagt ctgttggg ttcaatctt tcttaagtgtt agagctggc tctgagggtt 1740
tgaacctact gacaaataaa cagttatgtt tgcttcaaa gacacttcgc aagaccagag 1800
agttgttttgc tcatggctt cctggatcatg ggaagactat ctggctctt agatcatgg 1860
agaagatcatg gaatgtgtt cactgtgaac cggtaacat tctctacatc tgcggaaaacc 1920
agccccctgaa gaagttggg agtttcagca agaaaaacat ctgcacccca gtgaccccg 1980
aaacccat gaaaaacaac tttgaacaca tccagcacat tatcatgtat gacgctcaga 2040
atccctgtac tgaagatggg gactggatgtt ggaagcaaa gttcatcact cagacagcaa 2100
gggatggccc aggagttctc tggatcttc tggactactt tcagacccat cacttgagg 2160
gcagtgccct ccccccctccc tcagaccgt atccaagaga agagatcaac agagtggtcc 2220
gcaatgcagg tccaatagct aattacctac aacaagtaat gcaggaagcc cgacaaaatc 2280
ctccacctaa cctcccccttgg tgcgtctca tgaacctaaa tggctcaag 2340

PF-0741 USN

ggtgtccca gcaacttaga gattattgaa gacttgaact tggaggagat actgatctat 2400
gtagcgaata aatgccgttt tctcttcg 2431

<210> 44

<211> 714

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3495166CB1

<400> 44

gcgcaccgtc gcaccgggtcc atttccctcg cgtgccgcgc tcacccaccc gcggcatgag 60
cagcgcggcc gcgtcgggccc cggcgccccgc cagcctcagc ctctgggacg aggaggactt 120
ccagggccgt cgctgtcgcc tgctaagcga ctgtgcgaac gtctgcgagc gcggaggccct 180
gcccaggggtg cgctcgggtca aggtggaaaa cggcggttgg gtggccttg agtacccga 240
cttccagggta cagcagttca ttctggagaa gggagactat cctcgcttga gcgcctggag 300
tggcagcagc agccacaaca gcaaccagct gctgtccctc cggccagtgc tctgcgcgaa 360
ccacaatgac agccgtgtga cactgttga ggggacaac ttccaaggct gcaagttga 420
cctcgttcat gactaccat ccctgcctc catgggctgg gccagcaagg atgtgggttc 480
cctcaaagtc agctccggag cgtgggtggc ctaccagtac ccaggcttacc gaggctacca 540
gtatgtgttgc gagcgggacc ggcacagcgg agagttctgt acttacggtg agctcggcac 600
acaggcccac actggggcagc tgcatgtccat ccggagagtc cagcactagg ctccacggcc 660
ccagacacct tccctgagga cactcaataa agttccttga atttccttgc caaa 714

<210> 45

<211> 3154

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3554748CB1

<400> 45

accatctccc actcgagctg ccccccgcct ctggacccga gtgactcagg cctttgtttg 60
tccttcctgg tagaggcggtt ccgtccctcg cggcaagatg cggagtgct gggatgggaa 120
acatgacatc gagacaccct acggccttct gcatgttagt atccggggct cccccaagg 180
gaaccgccca gccatccatca cttaccatga tgtgggcctc aaccacaaac tatgcttcaa 240
cacttcttc aacttcgagg acatgcagga gatcaccaag cactttgtgg tgtgtcacgt 300
gatgtccctt ggacaacagg tggggcgctc gcagtttctt caggggtacc agttccctc 360
catggagcag ctggctgcca tgctccccag cgtgggtcag catttcgggt tcaagtatgt 420
gattggcatc ggagtggcgcc cggagccctt tggctggcc aagttgcac tcatttccc 480
cgacctgggtt gaggggctgg tgctggtaa categacccc aatggcaaag gctggataga 540
ctgggctgccc accaagctt cccgcctaaac tagcacttta cccgacacgg tgctctccc 600
cctcttcagc caggaggagc tggtaacaa cacagatggt gtgcagagct accggcagca 660
gattgggaac gtggtaacc agggcaacct gcagctttc tggaaacatgt acaacagccg 720
cagagacctg gacattaacc ggcctggAAC ggtgcccattt gccaagacgc tccgctgccc 780
cgtgtgtctg gtgggtgggg ataatgcacc cgctgaggac ggggtgggtgg agtgcaactc 840
caaactggac ccgaccacta cgacccctt gaagatggca gactctggag ggctgcccc 900
gttcacacac ccaggaaagc tgactgaaccc tttccatgttcaag gcatgggctt 960
catggccctca gccagcatga cccgcctggc acgtccccgc actgcattccc tcaccagtgc 1020
cagctcggtt gatggcagcc gcccacaggc ctgcacccac tcagagagca gcgagggctt 1080

PF-0741 USN

gggccaggc aaccacacca tggagggtgc ctgttgaagc ctttgatccc gctgacgacg 1140
cccacgtcga gccccccaccc ccattcctgc gccggctcat gttccctta gtttatttt 1200
gtgagggcaa aggggaggaa atggggtct gttgaaaaa aatgagggga tcttagatgc 1260
tgcagcagaa cagtctccag gtgtttaag gggctcagtc ctccctatec catctcaact 1320
tccgtgttaa cttagccaac ttgacccctc tcatacccact cccggcgccc caggcacaga 1380
agggcagggc cataggggagg gagattcgct acggatccag gccattctg ggtgagccct 1440
tgggcaggca tggttggaga tgagagaggc ttgcagaggg tgggtgctgg gccacagggg 1500
tgcggggcca gctcaggcac tggcgtggga gccctggag acccctccc ccaccctcca 1560
ccaagcacac ctgttctgt ctcatacgac atgtgacaat catctggaca acagccacaa 1620
gggggcgctc ggaccaggca gccacttcc tggtgctctc tggggccagc tggtgctgta 1680
gggcccacgca ggcaggggcg tcaagggtt tctctgccc aggaagacag aacatggaga 1740
accgtcaggc caggaacccc acagactgtc cttccagcc cacactctgc caccccttgg 1800
ccctgtccca attctgagcc aaggcctccc cgaggcagaa gttgcctggt cctctgtccc 1860
cacagtgacc tgactgggg tgagggagaa ggaggagaga gcccattgtgt ggtgtgtgtg 1920
cccctgagaa ctctgtggt actgccttgc ggagccgc ggtggccaga ggcaggggta 1980
gctgagttcc tggagacccc tttttgccc ccaggttccc cagagggcaa cgccatcagt 2040
agcagtgtgg tgtttcaggc agagctctgg ccaggctgtg ccagtgtgtc cggacgcat 2100
actaaggaa gagagaggtt atttagtcaa ctggcccaag gcagcgaggc ttctacagtc 2160
ccacacccc tagccgcctg ggctggggct tactggggc tgaagggtct ggacatgaac 2220
aagggtcagg tagaagagaa aggctcccc tacaccccaag cctcctgctg tcccctgaag 2280
cccaggactg cgttgtatgc tttccatcca ctcacccatc cccatagcat cttgcggccc 2340
agaaaaccaga gccatttgc tcagacccta aatcaataat cacaacccc aaaacgggag 2400
agagcagtga aaacatgcag ggctgtggac gggggaaagggtt tttttggcggg ttttctgagg 2460
ctgagaggac acctatatgc gtatttcctc tacacacatc accccccc tataatctt 2520
agccatgact agcctgggtt cgtgttagtt tctgcccagt tctacccctt catgtgttcc 2580
ttctgaatac tgaatgtgac tggtaaaag ctggtagaat tcatccctt tactgttagat 2640
aacactgcaa atcttggaaat tttttttt gctgtttcca gatgtatcta taaatatcta 2700
tacatttatat gtgtgtgtgt gtgtgtgtgt gtacatcggtt ccctccatg 2760
tgtgggttcc ttctggaggt tgtcttttgc tcaagggtga acttttaatgt ttttattttt 2820
tcttctccgc acaaagtaaa gagcctaatt ttgtgtattc tggggctgc tgcatacgaga 2880
tgataaaatg taaaacaaaa ctctagtcaa cgtagaaaga gttactgtg ctgaaaaact 2940
aataaagaac ctaagaagaa ttccagtgtg gtgtatccat gcccattatc ggaggcttt 3000
ggagaaacag aatgtttggg cagggctgc tgggtgtgt tgggttttgg gttgaggggtg 3060
ctaggagagg atggtctcca cccatccatc tatttccagt acacgtcaca ttatccatc 3120
ggtgagatga gaatgtcaca aacattaaaa gcct 3154

<210> 46
<211> 2204
<212> DNA
<213> Homo

<220>
<221> misc_feature
<223> Incyte ID No: 3555629CB1

```
<400> 46
aggcgcgcg ccgggtggcgatggagcgccagcgcgcgcaacacagcaactgcgaaac 60
ctgcgtgacttcctgttggcttacaatcgatgacagaactctgttcca gcgctgtgtg 120
cccagcttgcaccaccgagctctggacgctgaggaggaggcctgtgtgcc cagctgtgtct 180
ggaaagctgatccattccaa ccaccgcctcatggccgctt acgtgcagct catgcctgc 240
ctggcacagc gccgcacgc agactacgag gctgcctcgcttgtccagg cgttgtctgt 300
gaacagcctgggtctctccatcaggcagctagccatacc caaccccgagg aaggaaggcc 360
ttggatggac cctcagattgaaggaccgg tggaccttgg ggttggtaatccctaaacag 420
agagaattcg aggttgcctgaaagctgggtgtccttgctctttccttqqaqccaatata 480
```

PF-0741 USN

cccagtttt actcagttt atttatattc tggcaagga agcttcgcct actttattgg 540
cacaatccgt tgttctgtcg ttttagtgcatt atctgctggc ttccagccctg gcagctgaga 600
aattgttttc tatatgtaga aggaaaacct gagcatttgc aggcatctgg ttaaaggcagg 660
gtctgtgtgt acaattttaa aacgggtaat atgtcatgt cttagtcat cttcacaaca 720
aaactatgag taagcggtat tagcctact taacagatga ggaagcaaga ttccagaaag 780
taccagaagg tcattttata caacaggaga ttggttccctg cccagatgac agaaaaatggg 840
agctctgtct agttgtccctt aagtctgact gacttcagtg gctcataacc gtgagccaag 900
tatttgttgg ttccataactg ttgtttgtg aactatgtct tacatgtcta gagttctgct 960
ggatcttaggg aaaggaggag ctatcgaagt acaacggatc aaaaaaccac agggctttg 1020
ggcactgcct ccttgggaag tttagtggcca cagaagagag atgaaaacctg taagaagtct 1080
ggagtctttt ggaacttcag ccatttcccc aggttgttac ttcttagta tgtacagtct 1140
tctcaggatg agcagtaaaa ccttgaaca aaggctgtg tggttgcatt cacgggcaat 1200
caggaagggaa gagagctggg gaccatattc tgcaatgcag ccaaattccga ggaagagaaa 1260
ctgaaggggag aagtagatgg caatggttt gataaaaagg gataaaaacta aatcttcggg 1320
acttctttaa tgctacgtta atgtttcaact gctcgtctag aaactctaa atccagctt 1380
ctatcatctg ccccacattt gtcacatttgc gtacattctg tgatttctaa ttccagcctc 1440
tccattctt tctcatttattt gcctcccccg ccccccact ttgtgttaatt tacttctgtt 1500
ttcagcagcc tggatagcat atcattccat cacccattt tcttgccacc attgccatc 1560
tttttgtatc attccactta ttctgtctt tccatttcattt cattcaact gctagagaaa 1620
aacagttgtg taatgaatgc cactaaatat tcaaggcctc caacctcagc caagtccctca 1680
caccaacacg cagtcacacc aacacacacc ttatgggtt cctggccat ttccctctct 1740
aattaccatg gcagtttattt tacacctcta ctgctgttccct taatccata ccccacccctc 1800
atcaggtgac cctgtttccct ttttttagaga aattgaagct cttagacatt ggtttccaca 1860
gtaataattt taaaacttct tacaacttacc tacaaggcag atgttctatc ctatctacag 1920
agcagaaaaat tgaatttctc aagtagcaga cccggatttta aagtgcagat ctgactttaa 1980
agtccatgtt cattttacac agcaggctgc ctcttaagat agtattttt gggcacacac 2040
tttggtagg ttctgatttt ggttagatgtc atgtttata ttaatctta caacaactat 2100
aagtaagagg tattaacctc acttaacaga tgaggaagca agaatccaga atatgccaga 2160
aggcacattt tgcagatttgc gtcacaaacat ttatacacag cttc 2204

<210> 47

<211> 863

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 639636CB1

<400> 47

cggctcgagg gctgaggggc cgccaccgccc agcagggagg cggagggcta gcgagccaag 60
cggtggggac gcccgtgcct tcctcttgc ctgtctcgcc gcccctctag acacgctcct 120
catctacgga tcctaccctc cccgctcttgc caagcattca ctcggccggt cccctgctga 180
ccctccttcg ccacaggctc gttagcggagg cagcagcggag gcatgaagac ccccaacgca 240
caggaagccg aaggcaaca aaccaggca gctcggaggac gggccactgg gtctgcaaacc 300
atgacaaaaga aaaaagtctc cccaaagaag cagagaggcc gaccttcattc ccagccccgc 360
aggaacatcg tgggtgcag aatttctcat ggatggaaagg aaggagatga gcccatcacg 420
cagtgaaag gaaccgttct ggatcagctt ctagatgatt ataaggaagg tgaccccgcc 480
atcatgccag aatccagtga gtctccatca acagagaggg agccaggagg agttgttagat 540
ggcctaatacg gtaagcatgt ggaatatacc aaagaagatg gctccaaaag gatcggcatg 600
gtcattcacc aagtggaaac caaaccctct gtgtatttca tcaagttga tgatgatttc 660
catatctatg tctacgattt ggtgaaaaag tccttaactgt tagggtaaaa ttggcacat 720
gtgtggaaac aaatgtataa ttgttagaca tgcaaaaaat gttgccttc agtgtattga 780
aagcttatgg aatccctgat aactaaacat ctttgccagc attaactgtt gtttgcct 840

PF-0741 USN

ctgggctact gacacacaca cagtagccat tagttagact cttcttagtg aatatcagga 2580
acatcccatac tgtgtttaac cagaatccag caagttagca cacaagtgtat ttattgtta 2640
tttgggttta tttacttgca tttgttgtat ttactttcat ctgcagcatt tggagttaa 2700
aaataaatgtt aagggttcta gttagaaatag tgtcctaagg ccaattaccc accataactaa 2760
caatcagcag ataaaattctt ggacgtgaga ttccttataa tctaattata cctgaggttg 2820
agcaagaaat gtcttcctt agaaaatctc attcaagtca ggttcttctc tacagttcaa 2880
aattgagaat ggatttaatt aactagcatt tagccagctt tttcttgccc ttggagaaaa 2940
agaatcattc tcaacctgat aatctgttaa gaaaaatccc atatgaacaa tctggtcatt 3000
aacatacata tgatacggag tctctttgtt gtcaccaagt gaacatactt ctatgggtgg 3060
gttggacagt aatacatgtt acagggtcag aagcttctgg tttctgtgt ttgctttaaa 3120
tacccttggg gttttttttt aaacccttac aaggggagca tcagcttgg aaagtgtgac 3180
tctgttaggag tgttagaaggc agtgggttat gatcttagcc tcgtcctgtat gcctgaatcc 3240
agccagctgt tgctctgacc cacagcaata gagcaagttt cccatcacca gcatttgtac 3300
agagcagggg attctgggtt tagtccattt gtagcattgt gtgtatgagg agattcaaca 3360
ccacagacag ctgcaggact cgatatccat ggcttcttcc catcacaaaaa cgggtagaaa 3420
cacattcaact gcttcagggt tctaattctgt gtgtctcattt atgactccat ttctgtaaagc 3480
tactctgtaa ctttgcata tgcgttattt tctttcttta aaagatttag atgttttttc 3540
agcaagctag ccatacaacc attgtatctc tttcttca gtatggttta gagcccagat 3600
cagtttagtag gcttcgttg tcttctttt caatacatgtt acatcttac tggttggaaaa 3660
gtgttacagc tgtcaaagaa tcttcatgga cctgaagata atttcttgtt aagttgaatg 3720
caagtgtact gtcattcata gtgttataat caaaatacca ggaatctca ctttgctac 3780
cttgatatacg cattgggcta tcatgttaca acattgaaat acattgattt attaaaaaat 3840
actttataaa gaaaaaaaaaa 3860

<210> 49

<211> 726

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1360522CB1

<400> 49

cccgccccact aacggcgccg gtgacgactt cgccgcgcgt tggtcagcca tggccaccgc 60
tctcgcgcta cgtagcttgc accgagcgcg accctcgctg cgctgtccgc ccgttgagct 120
tccctgggcc ccgcggcgag ggcacatcggt ctcgcggcg gatgacgagc tgtatcagcg 180
gacgcgcac tctctgtgc aacgcgaggc cgctcaggca atgtacatcg acagctacaa 240
cagccgcggc ttcatgataa acggaaaccg cgtgctcgcc ccctgcgcctc tgctccgc 300
ctcgggtggg cagtggaacg tgggatccca ccaggacatc accgaagaca gctttccct 360
cttctgtttt ctggagcccc ggatagagat cgtgggtggg gggactggag accggaccga 420
gaggctgcag tcccagggtgc ttcaagccat gaggcagcgg ggcattgctg tggaagtgc 480
ggacacgccc aatgcctgtg ccaccttcaa cttcctgtgt catgaaggcc gagtaactgg 540
agctgctctc atccctccac caggagggac ttcaacttaca tctttgggcc aagctgctca 600
atgaaccgcc aggaactgac ctgctgactg cactctgcca ggcttccaa tgctttcact 660
cttatctacc ctttggcact tatcttgctt atcaacataa taatttatac acttctaaaa 720
aaaaaaaaaa 726

<210> 50

<211> 2196

<212> DNA

<213> Homo sapiens

<220>

PF-0741 USN

<221> misc_feature
<223> Incyte ID No: 1400678CB1

<400> 50

gatggcgtcc atgcgggaga gcgacacggg cctgtggctg cacaacaagc tggggccac 60
ggacgagctg tggcgccgc ccagcatcgc gtcctgctc acggccgcgg tcatacgacaa 120
catccgtctc tgcttccatg gcctctcgctc ggcagtgaag ctcaagttgc tactcggac 180
gctgcaccc cgccgcgcga cggtgacga gatgaaggcc gccctaattgg agatcatcca 240
gctcgccagc ctgcactcgcc acccctgggt gctcatggct gccgacatct tgaagtcctt 300
tccggacaca ggctcgctta acctggagct ggaggagcag aatccaaacg tttaggat 360
tttggagaaa cttagagaaa aggtgggtga gtgtgaagcg tctgccatgc tgccactgga 420
gtgccagttac ttgaacaaaa acgcctgac gaccctcgcg ggaccctca ctcccccggt 480
gaagcatttt cagttaaaggc ggaaacccaa gagcgccacg ctgcggccgg agctgctgca 540
gaagtccacg gagaccgccc agcagttgaa gcggagcgcgg ggggtccct tccacgccaa 600
ggccgggggg ctgctgcggagatggacac caccacccaa ctcaaaggca tcccgaagca 660
ggcgcccttc agaagccca cggcgccca cgtttcagc cccacaggga accggacccc 720
catcccgctt tccaggacgc tgctgcggaa ggaacgaggt gtgaagctgc tggacatctc 780
tgagctggat atgggtggcg ctggccgaga ggcgaagcgg agaaggaaga ctctcgatgc 840
ggaggtgggt gagaagccgg ccaaggagga aacgggtggg gagaacgcca ccccgacta 900
cgccagccggc ctgggttcca cgcagaaact tgggtccctg aacaatgagc ctgcgctgcc 960
ctccacgagc taccccttccct ccacgcccag cgtgttccct gcctccctt acatccccag 1020
ctcccgagacg ccccgccccc catcttcccg ggaagccagc cgccaccagg aggagccag 1080
cgccccgagc cccacgttgc cagcgcagtt caagcagcgg gcgcctatgt acaacagcgg 1140
cctgagccctt gccacacccca cgcctgcggc gcccacctcg cctctgacac ccaccacacc 1200
tccggctgtc gcccctacca ctcagacacc cccgggttgc atgggtggccc cgagacccca 1260
ggccctgtc cagcagcgc ctaagaagaa cctgtccctc acgagagagc agatgtcgc 1320
tgcccaggag atgttcaaga cggccaacaa agtcacgcgg cccgagaagg ccctcatcct 1380
gggcttcatttgc gcccgtcccgagagaaccc gtggcaggag cagggggacg tgatccagat 1440
caagctgagc gagcacacgg aggacctgccc caaggcggac ggccagggttgcacat 1500
gctgtggac acagtgtttt agatgaacta tgccacgggc cagtgacgc gcttcaagaa 1560
gtacaagccc atgaccaatg tgccttagaa ccacctgcct cacagctggc cgtcaactgt 1620
gggggtccac gggacgttgg ctttgcgc ttaaagtaac cggatggcgg acacctggcc 1680
cccgagggtcc cccggccgc gcccgtgc tgacccagcc tgtttaagt tctggatgca 1740
tttctctggg gtatggggg cttatTTTA aaattttat atgggttctt ttttgtgtga 1800
ttaaagacac ttttggact caacgttaca ttttgaatg tagtaagtaa attaacccaa 1860
aaagttacaa cttccataatt ttagtgacag ctctgcctgt tagactcttta cttttaaaa 1920
tctttcttat tttccctcgc tggggcagtg ccctcctacc cccagggttggggacccaa 1980
ggtggcacgg tggtaactggg ggtgcggcag ggacacccga ccacaccaga gcgtgggaga 2040
cggtggccct tgccttcgtc ctgtgcctgc ctggagttt tgtattcatc ttttgtatag 2100
ttgtggacat ttaagacagt ctttgggtac ctatTTTcat tggaaaacta tctgaaccat 2160
taaagtgcag ctttctaaa gaaaaaaaaaaaaaaa 2196

<210> 51

<211> 1495

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1435556CB1

<400> 51

gagcagaat tcggcacgg gaaaaatctg aaatctgaaa tgctccaaaa tcctaaactt 60
tttgagtgtc gacattatgc cacaatgga aaatttcata cctgaccctt tggatgtgc 120

agtcaaaaaca caggtgcaca acacccagtt catgcaacat ccccaatggg aaaaaagacc 180
 cccccagctc tcttcgtcg cagttttct gtcacacact ggattccccca tgcatcccc 240
 caaaaagtaa ttaaatggca tgcgtgcagg ctggacacgc caacaacagg tttcccacaa 300
 tgccccacat gggcgaagac ctgtgtcat tactcattgc attttttgc ttattctctg 360
 ctgtgtggta taaatatatt gttgaaaatg tcaaaaagac ctaaagatac ccctgtaat 420
 atcagtgata agaaaaaagag gaagcattt tgtttatcta tagcacagaa agtcaagttg 480
 ttggagaaac tggacagtgg tgtaagtgt aaacatctt cagaagagta tgggttgaa 540
 atgaccacca tatatgacct gaagaaacag aaggataaac tggtaagtt ttatgctgaa 600
 agtgatgagc agatattaat gaaaaataga aaaacactt ataaagctaa aaatgaagat 660
 cttgatcgtg tattgaaaaga gtggatccgt cagcgtcgca gtgaacacat gccacttaat 720
 ggtatgctga tcatgaaaca agcaaagata tacatcaatg aactaaaaat tgagggAAC 780
 tgtgaatatt caacaggctg gttgcagaaa tttaagaaaaa gacatggcat taaatttta 840
 aagacttgtg gcaataaaagc atctgctggt catgaagcaa cagagaagtt tactggcaat 900
 ttcagtaatg atgatgaaca agatggtaac tttaaggat tcagtatgtc aagtggaaaa 960
 aaaataatgt ctgacccct tacatataca aaaaatatac atccagagac tgcgtgaa 1020
 ctggaagaag aggatatcaa agatgtttt aacagtaata atgaggctcc agttgttcat 1080
 tcattgtcca atggtaagt aacaaaaatg ttctgatcatc aagatgatca tggataat 1140
 gataatgaag atgatgttaa cactgcagaa aaagtgccta tagacgacat ggtaaaaatg 1200
 tggatggc ttattaaagg actagagcag catgcattca taacagagca agaaatcatg 1260
 tcagttata aaatcaaaga gagacttcta agacaaaaag catcattaaat gaggcagatg 1320
 actctgaaag aaacatttaa aaaagccatc cagaggaatg cttcttcctc tctacaggac 1380
 ccaccccttg gtccctcaac tgcttctgtat gcttcttc acctaaaaat aaaataaaat 1440
 acagtgtaca gtaacctttt agtcaaaaaca gcatcatact tggaaactga aagcc 1495

<210> 52

<211> 2794

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1546633CB1

<220>

<221> unsure

<222> (1) ... (2794)

<223> a, t, c, g, or other

<400> 52

ccgcgagagc aaggagcaca gagtgccagca tcatgacaag gagatttctc gaagccgaat 60
 tccccggttt attcttcggc cccatatgcc ccaacaacag cacaaagtgt ccccgccctc 120
 tgagtctctt ttctgtgagg aagagagcag agagttcaac cccagcagct ctggcgctc 180
 agcgaggacc gtttagcagca acagttctg ctcagatgac acaggctgtc ctgcgcgcca 240
 gtcagtgtct cctgtgaaga caccctcaga tgctggaaac agccccattg gctttgccc 300
 tggaatgtat gaaggcttca ccagaaagaa atgcacgatt ggaatggttg gtgaagggaa 360
 cattcagttcc tctcgatata agaaggaatc aaagtccagg cttgtgaaac caggttgta 420
 agctgatttt agctccctcgaa gcagcacagg cagcatttcc gtcctgtggg tccatatgtc 480
 gactgcggga agcaagcggt cttcttcttcc acgcaatcgaa ggtcctcatg ggcggagtaa 540
 tggagcttcg tcacacaagc ctggcagcag cccatcatcc ccgcggggaaa aggaccttct 600
 gtccatgtcg tgcaggaatc agctgagccc tgcataatatc catcccgatg atgcaccc 660
 ttcccccaagc agtagcaact caggctctt caaaggaagc gactgttagcc ccatcatgag 720
 gcgttcttggaa aggtacatgt cttgcgggtaa atatcatgtt gtcagacccca caaacccaga 780
 gcagtatttgc actccactgc agcagaaaga ggtgacagtg agacacccca aaatcaagct 840
 gaaggaatct gagcggcggac tccatgaaag ggaaagtgaat atcgtggagc ttaagtcccc 900

gctggccgc atgcgagagg actggattga ggaggagtgt caccggtagt aggcccagt 960
 ggcactcaaa gaagccagga aagagattaa acagctcaaa caggtcatcg aaaccatgcg 1020
 gagcagctt gctgataaag ataaaggcat tcagaatat tttgtggaca taaacatcca 1080
 aaacaagaag ctggagtctc tccttcagag catggagatg gcacacagtgc gctctctgag 1140
 ggacgaactg tgccttagact ttccatgtga ttccccagag aagagcttaa ccctcaaccc 1200
 ccctcttgc acaatggcag atgggttatac tctggaagag caggtcacgg gggaaaggggc 1260
 tgacagggag ctactggtag gagatagcat agccaacagc acagattgt tcgatgagat 1320
 agtgacagcc accaccacag aatctggta cctggagctt gtgcattcca cccctggggc 1380
 taacgtcctg gagctgctgc ccatagtcat gggtcaggag gagggcagtgt tggtgggta 1440
 gcgagccgtt cagaccgacg tggtgccta cagcccagcc atctcagagc tcattcagag 1500
 tgtgctgcag aagctccagg acccctgtcc ctcgagctt gcgtccctg atgagtctga 1560
 accagactcg atggagagct tcccagagtc cctctctgcc ttagtgggtt atttaactcc 1620
 aagaatcca aactcagcca tcctttgtc tccctggag acccccacg ccaatgtgg 1680
 tgcagaagtt catgcaaacc gcctcatgag agagctggat tttgcagcct gctggaaga 1740
 gaggttggat ggtgtcatcc cactggctcg cggggggcgtc gtgaggcagt actggagcag 1800
 cagttcctg gtggatctcc tggctgtgc tgccccctgt gtcacccacgg ttctgtggc 1860
 attcagttact cagaggggg gaacggatcc ttgtataac atcgggcct tgctcagggg 1920
 ctgttgcgtg gttccctgc attcgctccg ccgcacccgccc ttccgtatca aaacctaaat 1980
 agaagttgtt gttaccgtgt gccaatgtgt cccatgtggg ttgtgccagg tagagaaaca 2040
 ggaagtcaat catctgtgac agtctctatt ctgtcggtt gctccttggtt atttgatttg 2100
 cactatatt agttgaagcc ttgtcaactgt taaaaccgg aggtatctc aaaggcatgg 2160
 agacctgggtt ccagtaaatg tcccaccagt ggggtataga aagcatgctc atgaccctgc 2220
 cgtgtcgctc gaggtaccccg ttcttatcct agtgggtcag gaagagaaaa cgtagttgc 2280
 actttcaaga cagttctct aaggctggca tggttatctcc ttgtttgtt ttttgcgtt 2340
 taaaatgtt taattgttcc agcattccaa tggtcttgc catagcaggg gactgttaacc 2400
 aaaaataaaac atgtattttgt gtaattgtt tgaagaagtc ttgaatagct cttaactgtc 2460
 ttacttgggg ttgataagat ttgagtgttt gcaattttt actaaatgtt gctccaaagt 2520
 cttaaatggc ttgtttgtt taaaactgtt aattgtgaa actgtgcata agtttacaat 2580
 gtactaactt attttgctt ttatataatag tggtttattt gaaattgtaa ccacacactt 2640
 cagcatgatg aaaataaaaga ttgtgtttc catttaataa aatgttttat cctccccata 2700
 aaatnaagna ngnnttnang ggggaggtt ncaannttgg gttgnanaan atttagngcc 2760
 ttnngntgtn tcgggggttt gngcnangca aaaa 2794

<210> 53
 <211> 1516
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1794031CB1

<400> 53

acgggatctg gatgagctgg acaaggatca tttacagttt agagaaggcct gggatggcct 60
 cgatcaccag attaatgcat gaaaaataaa gctaaattat gccttgccttcc caccctccaa 120
 tcaaaactgaa gcttggctcc aggaggtaga agagctttagt gatgaagatt tgtagcgcctc 180
 ccaggatcac tctcaagccg tgactctgtat acaagagaaa atgactttat tcaagagcct 240
 gatggataga ttggatcatc attcgAACAT tctccttacc ttggaaaata aggtgaaaa 300
 tcacttgcctt ttggtaaccac ctaacaaatt ggagggaaatg aaaagacgaa tcaacaacat 360
 ttggagaaa aaatttattt tacttcttaga atttcattac tacaagtgtt tagttcttgg 420
 ttggtagat gaagtgaaat caaaatttgg tatttggAAC attaaatatg ggagcagaga 480
 atctgtggaa ttattgtctgg aagactggca taaattttt gaaaaaaaag aattccttagc 540
 tcgactttagt acttcttttc aaaaatgtgg agaaatttat aagaatttgg ctggagaatg 600
 tcagaatatt aataaacagt atatgtatgt gaaatctgtatgt atagaaaaaa 660

PF-0741 USN

tataatataat gtgaagtcca ctctacaaaa agtgctggca tttgggcta cttatgtgga 720
aaaccttcgc ttactaaggg cttgcttga ggagacaaag aaggaagaaa ttaaagaggt 780
accctttag acactagccc agtggaatct agaacacgct actttaaatg aagcaggaaa 840
tttcttagtc gaagtcagca atgatgttgt tggatcatct atttctaaag aactgagaag 900
gctgaataaa agatggagaa agttggttc aaaaactcaa ctgaaatga acctgccact 960
gatgataaaa aaacaggatc agcccaactt tgacaattct ggaaatattc tatctaaaga 1020
agagaaagca actgttgagt tttcaacaga tatgtcagta gaacttcctg aaaattataa 1080
tcaaaatata aaggctggag agaaacatga aaaagaaaat gaagaattca cagggcaact 1140
aaaagtggct aaagatgtt aaaaactcat tggataagt gaaatctgg aggccagaagc 1200
caaatctgtt ttggatcaag atgatgtgga cacctcaatg gaagaatctt tgaaggtatg 1260
tgtgtaaaag tattaagagg gtactttcat gttgtgcat ttatgttta agttaaataa 1320
gaagttttaa agtaagtagt aataagccta cagtttaat tttctttgtt gggagttta 1380
aaaatgaatg gatTTtatcc ctggatcatt tgctgttatt ttgcttgaca gcagaggata 1440
gattaggaga ccactgataa tacctatgaa tgttaagctc ttggacttat tttcttagct 1500
ataacatggg gttaa 1516

<210> 54
<211> 1146
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2060563CB1

<400> 54
tgccgcctg ccaccctgcc gccctgccgc cctgccgc tgccgcctg ccgcgggtgg 60
tcgctgccc tgggtctccg tcgcggccgc cacctcacgt ctcggcgctgc gtcggagcg 120
tctcggtcac aacatgttgg gcatgatcaa gaactcgctg ttccggaaagcg tagagacgtg 180
gccttggcag gtcctaagca aaggggacaa ggaagaagtt gcctatgaag aaagggcctg 240
tgaaggcggc aaatttgc当地 cagtagaaat gacagataag cctgtggatg aggctctacg 300
ggaagcaatg cccaaaggctg caaaatgtgc gggggcacc aatgacaagg gaattgggat 360
ggggatgaca gtccttattt ccttgcgtg gttcccaat gaagatggct ctctgcagaa 420
gaaattaaaaa gtcgtgttcc ggattccaaa ccaatttcaa agcgaccac cagctccag 480
tgacaaaagc gttaagattt aggaacggg aggcatcaat gtctatttca tgtagttgg 540
tggttatgcc aaggaagcag actacgtac acaagccacc cgtctgcgtg ctggccctgg 600
gggcacagcc acctaccggg gggacatcta ctctgcacg gttatgacc ctcccatgaa 660
gccctacggc cggcgaatg agatctggct gttgaagaca tgtagtgcacc actgaaccaa 720
gaacttactg gaagtgtgcc tctgtgtctc ctccctcggg ggttaaggagg ggacagtgc 780
tcccaagttc cagctgcaag tccaaactaa ccaactttcc ttcaaaagtca gttactgcca 840
attttctgaa aaaagcatgt tccatataact aagtctctt tctcacagta gaaaataata 900
cagccaaagat atgcagcatc ctcttcattt atgttagaaaa ttctgcgata gaccagaaaa 960
atcctggcag cttttctcca ggcattctggg tcactaaaaa ctgattttctt aaaattattt 1020
gatttgcattt ttgttattaa gggggaaaat gtgatttgc cctgatctt catctgtgat 1080
tcttataaga gctttgtctt cagaaaaact aaaaataaaa ggcattgact taaaaaaaaaa 1140
aaaaaaaaa 1146

<210> 55
<211> 2761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

PF-0741 USN

<223> Incyte ID No: 2573955CB1

<400> 55

cggtcgagg ctgagaccca gagtcaccca ggggtctcc tcacgtCCA ggagtaggca 60
gaagtggct gtgacagatc aggaaacaga gctcagtgcA gcccactaaa ttgctcaggg 120
ccctacagct aacaagcggc agaggcagga tctgcactca ggagctgctt ggagatgctg 180
ctgtggccac tgctgctgct gctgctgct cttccaaacat tggccctgct cagggcagcag 240
cggtcccagg atgccaggct gtcctggctt gctggcctcc agcaccgagt ggcattgggg 300
gccctggctt gggcagccac ctggcagcgg cggaggctgg agcagagcac gtcctatgtg 360
caccagagcc agcagcaggg cctgaggtgg tgtctacagg gagccccagcg ccccccactgt 420
tccctcagaa ggagcacggc cataaggcacc ttccggaaatc atctccctct gaccaaggcc 480
agccagaccc agcaggaaga cagtggagag cagccactgg ccccgaccc tc aaaccaggac 540
cttggggagg cctctctgca ggccacccctt ctgggtctgg cagccctaaa caaggcctac 600
ccagaagtgc tggctcaggg acgcactgCC cgtgtgacgc ttacatcccc ttggcccccga 660
cccctgcctt ggcttggaa taccctggc caggtggca cccctggAAC caaggaccc 720
agggccctgc tgctggacgc actgaggtcc ccagggtctga gggcacttgg gaactgggacg 780
gctgtcgaac ttctggatgt ttcttggc ctggagactg atggtaaga gctagctggg 840
gcgatagctg ccgggaaccc tggagcgcct ctccgtgaac gggcagctga gctccgggag 900
gccctagagc agggggccacg gggacttggcc cttccggctt gcccggaaatc gcagggtgtg 960
gtgactctgg atgcaggagg ccaggccag gctgtggctg ccctcggggc ctgtgggtgc 1020
caaggactag ccttcttctc tccctgttat gctgccttgg gagggtgtt gggctaaac 1080
ctacagccag agcagcccc tgggtcttac ctcttggcccc ctggggggcccc ctttatcgag 1140
ctgctcccaag tcaaggaagg cacccaggag gaagctgcct ccacccttctt tttggccgag 1200
gccccaggcagg gcaaggagta tgagctggtg ctgacggacc gcccggccctt caccagggtgc 1260
cgccctgggtg atgtggtgcg agtgggtggt gcctacaatc agtgtccagt cgccgggttc 1320
atctgcaggc tggaccagac cctgagttgtg cgaggggaag atatttgta agacctgttc 1380
tctgaggccc tggggccggc agtggggcag tggggggggg ccaagctgtt ggaccatggc 1440
tgtgtggaga gcagcattct ggattcctt ctggggctctg ctcccccacta cgaggtgttt 1500
gtggcgtcta gggggctgag gaatctgtca gaggaaaatc gagacaagct ggaccactgc 1560
tttcaggaag ccttcccccc ctacaagtcc ctgcgggttctt gggccagcgtt gggccctgc 1620
agagtccacc tgggtggggca gggagccctt ccggccactcc gggcagccctt cgctgcctgc 1680
ccctccccc cttccccccc tgcgtatggcc cgggtccctt ggcacaggca cctggcccccag 1740
tgtctgcagg agagggtggt gtcctgagtc aagtccctgc ccaccggccca gctccccccca 1800
gaggccaccc cgccccccttctt tctgggaccc ctccggatgg ggagtccttgc gcccgggtct 1860
ctgactctgt gtcacctgac atttgccttctt gagagccgtt gggccctttaga gaggcccttgg 1920
cccagctgac cgggttctgaa gtatgggcctt ccgggggttag cagatggccag cagtgcctgc 1980
ccgtgtcccc atgtccccggc atgaaggaca ctgttagaga gttaccatgc acaccgatgg 2040
tttcctgtat cacagccaa agagggttcc tggggccac agtgcgtgtc tcagtcagtg 2100
caactggccaa gctagaagtg ttgggggggtt aatgtccccca ggagcagcaa ccctgagtca 2160
ataaggagca ggacccatgc ttcatgttcc ttgagcagga caattctgaa gtgtattctt 2220
cataaactct cagaggatgc ccaggcaggat ggagtcccttgc ttggccggcag cagtaacccca 2280
ctcattcatg tacttccctgc gggggctctt cttcccttctt ctcccccactt ccccccgcctt 2340
gggcttccctg ggatggctcc caaataaaacc tcttgcaccc agaaaaaaaaaaaaaaa 2400
aaaaaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaagg 2460
ggggggccgtt ctaggggttc caggtttagg tacgggtgc tgggagggtca tagctttctt 2520
aagggtgtccc ctaatttcat ttacggccgc gtggttttaa aagggtgtca ctggggaaac 2580
cctgggggtta cccaaattaa tcgcttttagg gaaattcccc ttttggcaag ttggggtaat 2640
agcgaagggg cccgcacggc tggccttcc aaaaatttgg gcccctgtat tggcgattgg 2700
gacgcgcctg taggggggtt ttaagccggc ggtttgggtg gttacggccgg tgaccggta 2760
c 2761

<210> 56

<211> 1164

<212> DNA

PF-0741 USN

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3404792CB1

<400> 56

atcatggcag ggctgggctc cgatccctgg tggaagaaaa cccttactt gaccggggga 60
gccttgctgg ccgcagctgc gtatctgctc cacgaactcc tggtcattag gaaacagcaa 120
gagattgact ctaaagatgc tattatttg catcagttt caagaccta caatgggttt 180
ccaagtttat ctcccttctg tttaaagatg gaaaacttatt taaggatggc tgacttaccg 240
tatcagaact attttggtgg aaaactctct gctcaaggga aaatgcctt gattgaatat 300
aatcatgaaa aagtttctgg cacagaattc ataattgact ttctggaaaga gaagcttgg 360
gtgaatttaa acaaaaaacct tggccctcat gaaagagcca tctccagagc ggtgaccaag 420
atgggtggagg agcacttcta ctggacgtta gcttattgcc agtgggtggca caatctcaat 480
gagaccggga agatgctctc tcttagtggc ggtggccct tcagcaacct gctgagggtgg 540
gttggtgtgcc acataacgaa aggaattgtg aaacgcgaga tgcacggcca cggcattggc 600
cgcttctccg aggaagagat ttacatgctg atggagaagg acatgcggc tttagcaggg 660
ctttgggtg ataagaagta catcatgggg cccaaagctt ccactcttga cgccactgtc 720
tttggacact tggcacaggc aatgtggacc ttaccaggga caagacccga acggctgatc 780
aaaggtgagc tgatcaacct tgccatgtac tgtgagagga taaggagggaa attttggcca 840
gagtggcacc acgatgatga caataccatc tatgagtctg aggagagcag cgaaggcagc 900
aaaacccaca ccccgctgct ggattttagc ttttactcaa ggacagagac ctttgaagat 960
gagggagcag aaaacagttt ttccagaacc ccagacacag attttactgg acactcactc 1020
tttggatcgatc atgtggacat ggtatgactat acagaccacg aacagtgcaa gtgacgtcca 1080
gcctcaactga ccctcttccct tgggacctgc cactccctgg gtcggccat tttcccaggt 1140
agcaatccat ccgagctggg agga 1164